

COLETRONICS SERVICE INC.
1744 ROCKAWAY AVENUE
HEWLETT, L.I., N.Y. 11557

(AUTHORIZED **TEICO** TUBE DATA SERVICE)

MODEL 625
NEW TUBE RELEASES
for use with
75/76 DATA BOOK

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
1F2		37	1.4	2	2-3-6	1-5
1F3		35	1.4	2	2-3-6	1-5
1FD9		20	1.4	1	4-5-6	1
"		50	1.4	1	5	1
1P1		13	1.4	1	2-3-6	1-7
1P10		30	1.4	2	(2-6)3-4	(1-7)
1P11		13	1.4	1	2-3-6	1-7
2CN3		55	2.0	4	10	2
4BF5		19	3.3	3	1-5-6-7	2-3
6AK7		15	6.3	3	4-6-8	5-7
6AT7N		22	6.3	2	6-7	4-8
"		22	6.3	2	1-2	3-4
6CH40		22	6.3	2	1-2-6	3-4
"		30	6.3	3	8-9	4
6EV7		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
6F10		18	6.3	3	4-6-8	3-5-7
6F23		22	6.3	2	2-7-8	(1-3)4
6F32		26	6.3	2	1-5-6	(2-7)3
6L31		30	6.3	2	(1-7)5-6	2-3
6T1		22	6.3	2	(1-7)(2-6)	3-5
6Z4		32	6.3	3	1	3-7
"		32	6.3	3	6	3-7
7CL8		18	7.5	3	1-2	3-4
"		18	7.5	3	6-7-9	4-8
7D11		19	6.3	3	3-4-5	1-7-8
7DZ7		21	7.5	3	4-5-6	2-8
"		21	7.5	3	1-3-4	2-8
7SC7		30	7.5	2	2-3	6-8
"		30	7.5	2	4-5	6-8
8D5		15	6.3	1	1-7-8-9	3-4
8D6		24	6.3	2	2-7-8-9	1-3-4
8FE5		17	7.5	3	3-4-5	1-7-8

OVER

75/76

TUBE TEST DATA

TEICO MODEL 625

This Tube Data Book replaces the Roll Chart
and includes all the Latest Data.

COLETRONICS SERVICE INC.

1744 ROCKAWAY AVENUE • HEWLETT, L.I., N.Y. 11557
(AUTHORIZED **TEICO** TUBE DATA SERVICE)

KEY TUBE AT	SHUNT	FIL.	SEL.	UP	DOWN
8FY7	0	7.5	3	3-5	7-10
"	5	7.5	1	2-3	1-4
8MV8		7.5	2	2-3	4
"		7.5	2	7-8-9	4
9DK3		7.5	3	(2-7)	4-10
9GV7		7.5	1	1-9	4(6-8)
"		7.5	1	2-3-7	4(6-8)
9MD8		7.5	2	1-9	4-7
"		7.5	2	2-8	4-7
"		7.5	2	3-6	4-7
12CA4		12.6	3	1	3-4
"		12.6	3	7	3-4
12KG6*		12.6	4	***	4-9
	***	(1-8) (2-7) (3-6) 10			
12ML8		12.6	2	1-9	4-7
"		12.6	2	2-8	4-7
"		12.6	2	3-6	4-7
16A		6.3	1	1-5-7	2-3
21HA6		6.3	3	2 (3-9) (6-8)	1-4
25KA6●	4	25.0	3	7-9-10	1 (2-8) 5
8950	4	12.6	3	(2-7) 9-10	3-6

CORRECTIONS

6BA11	0	23	2	2-3-4	1-5
"	0	23	1	3-4-6	1-7-8
"	5	25	2	1-3	2-4
6JT8		28	3	2-3	1-4
"		16	1	7-8-9	4-6

23Z9 - IMPORTANT - Due to several different filament center tap arrangements, data for this tube has been discontinued. Attempts at testing this tube may cause filament burn out on some tubes. Therefore, we recommend direct substitution as the only safe test.

- Cap goes to top of tube.
- * Must use magnoval adapter.

CAUTION

In certain tubes, elements such as a cathode, grid or plate may have more than one internal connection to the tube base.

These tubes may show shorts when tested even though they are not actually shorted. To avoid erroneous short tests for such tubes, use the following procedure:

1. Filament voltage switch must be set to 0 volt position before making any short tests.
2. To avoid tube damage, adjust all settings **before** inserting the tube into its socket.
3. Levers enclosed in brackets must be moved together as one.
4. **ONLY** levers **underlined** will cause tube short test to light.
5. Levers **underlined** and in brackets must be moved together, as one, and will show short in the opposite position.
6. In the case of tubes having more than one section and therefore having more than one test, **the tube must be removed** from the socket and all settings made before reinserting the tube for the next test.

* MAGNOVAL BASE—"MUST USE MAGNOVAL ADAPTER" NOT NECESSARY ON 610A ADAPTER.

10 PIN DECAL BASE—REQUIRES THE USE OF DECAL ADAPTER. Not necessary with 610A adapter.

● Cap goes to top of tube.

A number within brackets (after tube type number), such as [3] refers to the particular key used in positioning the compactron tube on the 610 or 610A adapter. There will be no pin on the tube inserted in the corresponding socket pin number.

On early models meter scale may read 0-1000. In this case GOOD above 20 will read 200 on Meter Scale, 30 will read 300.

FOR 10 PIN MINIATURE, 12 PIN COMPACTRONS, NOVAR, DECAL, MAGNOVAL, 2 PIN RECTIFIER AND NUVIATOR TYPE TUBES USE MODEL 610A ADAPTER.

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

KEY AT COLUMN REFERS TO POSITIONING OF COMPACTRONS ON
610-610A ADAPTER

1

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
OA2		35	0.0	4	1-5	2-4-7
OA3		31	0.0	4	5	2-3-7
OB2		100	0.0	4	1-5	2-4-7
OB3		35	0.0	4	5	2-3-7
OC2		Good above	10.	4	1-5	2-4-7
OC3		Good above	10.	4	5	2
OD3		40	0.0	4	5	2(3-7)
OG3		Good above	20.	4	1-3-5	2-7
OZ4		Good above	10.	4	5	3-8
1A3		22	0.0	4	3	5-8
1A7		50	1.4	1	(2-6)	1-3
1AD2		12	1.4	1	5-6	2
"		Due to varying arrangements of internal connections this tube cannot be tested.				
1AE4		12	1.4	1	2-3-6	1-5
1AF4		14	1.4	1	2-3-6	(1-5)
1AF5		40	1.4	1	4-5-6	1
"		Good above	10.	1	3	1
"		100	1.4	1	(1-9)	5
1AU2		Good above	10.	1	10	(2-5-8)
1AX2		Good above	20.	4	10	4
1AY2		Good above	15.	4	10	4
"		65	1.4	4	Using the 9 pin socket, carefully insert the filament pins between pins 4 & 9.	
"		100	1.4	1	10	2
1B3		Good above	25.	1	10	(1-4-6-9)
1BC2		80	1.4	1	10	10
1BK2		Good above	25.	4	10	(2-5-8)
1BQ2		70	1.4	4	10	(1-4-6-9)
1BX2		50	1.4	4	10	(2-5-8)
1BY2		Good above	40.	4	10	1
"		80	1.4	4	10	1
"		●Cap goes to top of tube. No short test-Good above 30.				

2

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
1C3		18	1.4	2	(2-6)4	7
1D13		50	1.4	1	(2-6)	1-3
1DG3		85	1.4	4	10	3-5
1DK1		No short test-Good above	20.	1	10	2
"		Insert 2 base leads into pins 1&2 of 9 pin min. socket-use cap on single lead-Good tube reads above 10.				
1DY4		22	1.4	2	(1-7)(2-6)	3-5
1G3		55	1.4	4	10	2
1J3		100	1.4	4	10	2
"		Good above	20.	1	10	2
1K3		100	1.4	1	10	2
"		Good above	20.	1	3-4	1
1L6		19	1.4	1	2-5-6	1
"		21	1.4	1	3-4-5	1
1N6		36	1.4	2	6	7
"		35	1.4	1	4	7
1R5		20	1.4	1	10	1-5
1RK23		60	1.4	4	10	1-3-4-6-7-9
1RK41		70	1.4	4	10	(2-5-8)
1S4		30	1.4	2	2-3-4-6	1-5
1T4		35	1.4	2	2-3-6	1-5
1U4		35	1.4	2	2-3-6	1-5
1U5		40	1.4	2	2-3-6	1-5
1V2		35	1.4	1	4	1
"		75	0.75	1	(1-8-9)	4
1X2		Good above	20.	4	10	(2-5-8)
"		50	1.4	4	10	(2-5-8)
2AF4		Good above	40.	2	(1-7)(2-6)	3-5
2AH2		22	2.5	2	10	(3-4-7-8-9)
2AS2		80	2.5	4	10	4
"		Due to varying arrangements of internal connections this tube cannot be tested.				
2AV2		75	1.4	4	(1-9)	4
2AZ2		100	2.0	1	10	(2-5-8)
"		Good above	30.	1	(1-9)	4
2BA2		100	1.4	1	10	(2-5-8)
2BJ2		Good above	30.	1	10	(2-5-8)
2BN4		Good above	23.	2	(2-7)5	(1-6)3
2BU2		23	2.5	4	9	4
2CW4		50	3.3	4	2-4	3-8
2CY5		13	2.0	1	1-5	2-4-7
2D21		15	2.5	3	1-5	2-4-7
"		22	6.3	4	1	2-3



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
2DL4	25	2.0	2		(1-3-6-7-9)8	2-4
2DS4	12	2.0	1		2-4	5-8
2DV4	22	2.0	2		1-2-4-6	7-10
2DX4	20	2.5	2		(1-7)(2-6)	3-5
2DY4	22	2.5	2		(1-7)(2-6)	3-5
2DZ4	24	2.5	2		(1-7)(2-6)	3-5
2EA5	20	2.5	2		1-5-6	(2-7)3
2EG4	40	1.4	2		2-4	3-8
2EN5	13	2.5	1		2	3-5
"	13	2.5	1		7	3-5
2ER5	13	2.0	1		2-5	(1-7)3
2EV5	22	2.5	2		1-5-6	(2-7)3
2FH5	22	2.5	2		2-5	(1-7)4
2FS5	25	2.5	2		1-5-6	(2-7)3
2FV6	13	2.5	1		1-5-6	3-7
2FY5	15	2.5	3		2-5	1-4-7
2GK5	15	2.5	3		2-5	(1-7)3
2GU5	23	2.5	2		1-5-6	(2-7)3
2GW5	23	2.5	2		1(2-6)	3-5
2HA5	22	2.0	2		1-5	(2-7)3
2HK5	21	2.5	2		1-5	(2-7)3
2HM5	22	2.0	2		1-5	(2-7)3
2HQ5	22	2.5	2		1-5	(2-7)3
2T4	20	2.5	2		(1-7)(2-6)	(2-7)3
2X2	42	2.5	4		10	3-5
3A3	100	3.3	1		10	4
"	Good above 35.					2
3A4	29	1.4	2		(2-6)(3-4)	(1-7)
3AF4	22	3.3	2		(1-7)(2-6)	3-5
3AL5	25	3.3	2		2	3-5
"	25	3.3	2		7	1-3
3AT2	5	100	3.3	1	10	(1-6-7)
"	Good above 30.					
3AU6	22	3.3	2		1-5-6	2-3-7
3AV6	28	3.3	2		1-7	2-4
"	35	3.3	1		5-6	2-4
3AW2	2	50	3.3	4	10	(3-4-7-8)
3AW3	65	3.3	1		10	2
"	Good above 25.					
3B2	100	3.3	1		10	(1-3-5-7)
"	Good above 14.					
3B4	34	1.4	3		1-3-7	4-5
3BA6	23	3.3	2		1-5-6	3-7
3BE6	12	3.3	1		1-5-6-7	2-3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
3BH2*	100	3.3	1		10	(1-5-9)
"	Good above 35.					
3BL2	3	100	3.3	1	10	2
"	Good above 35.					
3BM2	2	50	3.3	4	10	(3-4-7-8)
3BN2	5	100	3.3	4	10	(1-6-7)
"	Good above 30.					
3BN4	23	3.3	2		(2-7)5	(1-6)3
3BN6	100	3.3	1		2-5-6-7	1-3
"	Good above 40.					
3BS2	2	47	3.3	4	10	(3-4-7-8)
3BT2	5	55	3.3	4	9	4
3BU8	12	3.3	1		2-7-8	1-4-9
"	12	3.3	1		2-3-7	1-4-6
3BW2	2	53	3.3	4	10	(3-4-7-8)
"	Cap goes to top of tube.					
3BZ6	22	3.3	2		1-5-6	2-3-7
3CA3	45	3.3	1		10	7
"	Good above 30.					
3CB6	22	3.3	2		1-5-6-7	2-3
3CE5	25	2.5	2		1-5-6	(2-7)3
3CF6	24	3.3	2		1-5-6	2-3-7
3CN3	55	3.3	4		10	2
3CS6	24	3.3	2		1-5-6-7	2-3
3CU3	45	3.3	4		10	2
3CV3A	100	2.5	1		10	2
"	Good above 30.					
3CX3	55	3.3	4		10	3-5
"	No short test.					
3CY3	58	3.3	4		10	2
3CY5	15	3.3	3		1-5	2-4-7
3CZ3	60	3.3	4		10	2
"	Good above 35.					
3DA3	55	3.3	4		10	3-5
"	No short test.					
3DB3	60	3.3	4		10	2
"	Good above 35.					
3DC3	44	3.3	4		10	2
3DF3	45	3.3	4		10	3
"	No short test-Good above 30.					
3DG4	20	3.3	3		5	1
"	20	3.3	3		7	1
3DH3	40	3.3	4		10	3-5
3DJ3	No short test-Good above 40.					
3DK6	74	3.3	4		10	2
"	20	3.3	2		1-5-6	2-3-7



TUBE	SHUNT	FIL.	SEL.	UP	DOWN
4BN6	100	3.3	1	2-5-6-7	1-3
"	Good above	35.			
4BQ7	25	3.3	2	1-2	3-4
"	25	3.3	2	6-7	4-8
4BS8	23	3.3	2	6-7	4-8
"	23	3.3	2	1-2	3-4
4BU8	12	3.3	1	2-7-8	1-4-9
"	12	3.3	1	2-3-7	1-4-6
4BZ6	22	3.3	2	1-5-6	2-3-7
4BZ7	16	3.3	3	1-2	3-4
"	16	3.3	3	6-7	4-8
4CB6	22	3.3	2	1-5-6-7	2-3
4CE5	25	3.3	2	1-5-6	(2-7)3
4CM4	25	3.3	2	(1-9) (2-6-8)	(3-7)4
4CS6	24	3.3	2	1-5-6-7	2-3
4DE6	15	3.3	3	1-5-6-7	2-3
4DK6	20	3.3	2	1-5-6	2-3-7
4DL4	15	3.3	3	(1-3-6-7-9)8	2-4
4DT6	22	3.3	2	1-5-6	2-3-7
4EH7	22	3.3	2	2-7-8	(1-3)4
4EJ7	22	3.3	2	2-7-8	(1-3)4
4ES8	21	3.3	2	1-2	3-4
"	21	3.3	2	6-7	4-8
4EW6	20	3.3	2	1-5-6-7	2-3
4GJ7	18	3.3	3	8-9	(1-3)4
"	18	3.3	2	2-6-7	(1-3)4
4GK5	15	5.0	3	2-5	(1-7)3
4GM6	20	3.3	2	1-5-6-7	2-3
4GS7	25	3.3	2	1-2	(3-8)4
"	25	3.3	2	6-7-9	(3-8)4
4GS8	24	3.3	2	2-3-6-7	1-4
"	24	3.3	2	6-7-8-9	1-4
4GX7	20	3.3	2	8-9	(1-3)4
"	20	3.3	2	2-6-7	(1-3)4
4GZ5	13	3.3	1	(2-5)6-7	1-3
4HA5	22	3.3	2	1-5	(2-7)3
4HA7	28	3.3	2	3-7	6-8
"	28	3.3	2	1-2	6-9
4HC7	25	3.3	2	7-9	1-4
"	25	3.3	2	1-5	4-6
4HG8	21	3.3	2	2-8-9	(1-3)4
4HK5	23	3.3	2	6-7	(1-3)4
4HM5	21	3.3	2	1-5	(2-7)3
4HM6	22	3.3	2	1-5	(2-7)3
4HQ5	22	3.3	2	2-7-8	(1-3)4-9
"	22	3.3	2	1-5	(2-7)3

TUBE	SHUNT	FIL.	SEL.	UP	DOWN
3DR3	60	3.3	4	10	(3-5)
3DS3	40	3.3	4	10	3-5
3DT6	No short test-Good			above 40.	
3DX4	22	3.3	2	1-5-6	2-3-7
3DY4	20	3.3	2	(1-7) (2-6)	3-5
3DZ4	22	3.3	2	(1-7) (2-6)	3-5
"	24	3.3	2	(1-7) (2-6)	3-5
3EA5	20	3.3	2	1-5-6	(2-7)3
3EH7	22	3.3	2	2-7-8	(1-3)4
3EJ7	22	3.3	2	2-7-8	(1-3)4
3ER5	13	2.5	1	2-5	(1-7)3
3EV5	22	3.3	2	1-5-6	(2-7)3
3FH5	22	3.3	2	2-5	(1-7)4
3FS5	25	3.3	2	1-5-6	(2-7)3
3GK5	15	3.3	3	2-5	(1-7)3
3GS8	24	3.3	2	2-3-6-7	1-4
"	24	3.3	2	6-7-8-9	1-4
3GU5	23	3.3	2	1-5-6	(2-7)3
3GW5	23	3.3	2	1 (2-6)	3-5
3HA5	22	2.5	2	1-5	(2-7)3
3HK5	21	3.3	2	1-5	(2-7)3
3HM5	22	2.5	2	1-5	(2-7)3
3HQ5	22	3.3	2	1-5	(2-7)3
3JC6	20	3.3	2	2-7-8-9	(1-3)4
3JD6	15	3.3	3	2-7-8	(1-3)4-9
3KF8	22	3.3	2	2-3-7	1-4-6
"	22	3.3	2	2-7-8	1-4-9
3KT6	20	3.3	2	2-7-8-9	(1-3)4
3MP26	28	3.3	2	1-5-6	2-3
3MR24	25	3.3	2	1-5-6	2-3-7
3MV7	25	3.3	2	1-5-6	2-3-7
3Q4	33	1.4	2	(2-6)3-4	(1-7)
3S4	30	1.4	2	(2-6)3-4	(1-7)
3V4	18	1.4	1	2-3-6	1-7
4AU6	22	4.2	2	1-5-6	2-3-7
4AV6	28	3.3	2	1-7	2-4
"	35	3.3	1	5	2-4
"	35	3.3	1	6	2-4
4BC8	22	3.3	2	1-2	3-4
"	22	3.3	2	6-7	4-8
4BE6	12	3.3	1	1-5-6-7	2-3
4BL8	25	3.3	2	1-9	4-8
"	25	3.3	2	2-3-6	4-7
4BN4	23	3.3	2	(2-7)5	(1-6)3

5
5
0
3



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
5AV8		26	5.0	2	6-8-9	4-7
"		34	5.0	2	2-3	1-4
5AW4		23	5.0	1	6	2
"		20	5.0	1	4	2
5B8		20	5.0	2	6-8-9	4-7
"		25	5.0	2	2-3	1-4
5BC3		23	5.0	3	(5-6)	(2-3)
"		23	5.0	3	(8-9)	(2-3)
5BK5		24	5.0	3	1(3-7)8	4-6
5BK7		16	5.0	3	1-2	3-4
"		16	5.0	3	6-7	4-8
5BQ7		25	5.0	2	1-2	3-4
"		25	5.0	2	6-7	4-8
5BR8		22	5.0	2	1-2	3-4
"		21	5.0	2	6-7-9	4-8
5BT8		17	5.0	3	6-7-8	4-9
"		17	5.0	1	1	3-4
"		17	5.0	1	2	3-4
5BW8		25	5.0	2	1	2-4
"		25	5.0	2	3	2-4
"		25	5.0	2	6-8-9	4-7
5BZ6		16	5.0	3	1-2	3-4
"		16	5.0	3	6-7	4-8
5CG8		22	5.0	2	1-2	(3-8)4
"		24	5.0	2	6-7-9	(3-8)4
5CL8		14	5.0	3	1-2	3-4
"		13	5.0	3	6-7-9	4-8
5CM6		23	5.0	3	1(3-6)9	4-7
5CQ8		13	5.0	1	1-9	5-8
"		13	5.0	1	2-3-6	5-7
5CZ5		25	5.0	2	1(3-6)9	4-7
5DH8		25	5.0	2	1-2	3-4
"		25	5.0	2	6-7	4-8
5DJ4		27	5.0	3	(3-4)	(1-2)
"		27	5.0	3	(5-6)	(1-2)
5EA8		15	5.0	3	2-3-6	4-7
"		14	5.0	3	1-9	4-8
5EU8		15	5.0	2	1-7-9	5-8
"		15	5.0	2	2-3	5-6
5EW6		20	5.0	2	1-5-6-7	2-3
5FG7		24	5.0	2	6-7-9	3-4
"		24	5.0	2	1-2	3-4
5FV8		21	5.0	2	6-7-9	5-8
"		30	5.0	2	1-2	5-6
5GH8		21	5.0	2	2-3-6	4-7
"		21	5.0	2	1-9	4-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
4HS8		22	3.3	4	2-3-7	1-5-9
"		22	3.3	4	2-7-8	1-5-6
4HT6		24	3.3	2	2-7-8	1-3-4-9
4JC6		20	3.3	2	2-7-8-9	(1-3)4
4JD6		15	3.3	3	2-7-8	(1-3)4-9
4JH6		20	3.3	2	1-5-6	2-3-7
4JK6		20	3.3	2	1-5-6-7	2-3
4JL6		15	3.3	3	1-6	2-3
"		20	3.3	1	5-7	2-3
4JW8		22	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
4KE8		21	3.3	2	2-3-6	4-7
"		23	3.3	2	1-9	4-8
4KF8		22	3.3	2	2-3-7	1-4-6
"		22	3.3	2	2-7-8	1-4-9
4KN8		23	3.3	2	1-2	3-4
"		23	3.3	2	6-7	4-8
4KT6		20	3.3	2	2-7-8-9	(1-3)4
4LJ8		24	3.3	2	1-2	(3-8)4
"		24	3.3	2	6-7-9	(3-8)4
4LU6		26	3.3	2	1-5-6-7	2-3
4MK8		22	3.3	2	2-3-7	1-4-6
"		22	3.3	2	2-7-8	1-4-9
4MP12		22	3.3	2	1-5-6	2-3
4MP26		25	3.3	2	1-5-6	2-3
4RHH2		25	3.3	2	1-2	3-4
"		25	3.3	2	6-7	4-8
4RHH8		23	3.3	2	1-2	3-4
"		23	3.3	2	6-7	4-8
4RHH15		29	3.3	2	1-2	3-4
"		29	3.3	2	6-7	4-8
5AM8		22	5.0	2	2-3-6	1-4-9
"		24	5.0	2	8	4-7
5AN8		20	5.0	2	1-2	3-4
"		22	5.0	2	6-7-8	4-9
5AQ4		25	5.0	3	6	2
"		25	5.0	3	4	2
5AQ5		30	5.0	3	(1-7)5-6	2-3
5AR4		20	5.0	4	4	8
"		20	5.0	4	6	8
5AS4		23	5.0	3	4	2
"		23	5.0	3	6	2
5AT8		22	5.0	2	1-2	3-4
"		22	5.0	2	6-7-9	3-4-8
5AU4		31	5.0	3	6	2
"		31	5.0	3	4	2



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
5RHP1		25	3.3	2	1-9	4-8
"		25	3.3	2	2-3-6	4-7
5RHR1		24	5.0	2	2-3-6	4-7
"		24	5.0	2	1-9	4-8
5T8		15	5.0	1	2	3-4
"		15	5.0	1	6	4-7
"		15	5.0	1	1	4-7
"		25	5.0	3	8-9	4-7
5U4		31	5.0	3	4	2
"		31	5.0	3	6	2
5U8		20	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5U9#		22	5.0	2	3-4-7-8	2-6
"		26	5.0	2	9-10	1-6
5V3		23	5.0	4	4	8
"		23	5.0	4	6	8
5V4		20	5.0	3	4	8
"		20	5.0	3	6	8
5V6		20	5.0	3	3-4-5	2-8
5V9#		30	5.0	2	2-3-4	1-6
"		30	5.0	2	8-10	6-9
5X8		24	5.0	2	2-3	4-6
"		24	5.0	2	7-8-9	1-4-6
5X9#		24	5.0	2	3-4-7	2-6
"		25	5.0	2	9-10	1
5Y3		42	5.0	3	4	2
"		42	5.0	3	6	2
5Y4		47	5.0	3	5	7
"		47	5.0	3	3	7
5Z3		33	5.0	3	3	1
"		33	5.0	3	2	1
5Z4		22	5.0	3	4	8
"		22	5.0	3	6	8
6A8		32	6.3	2	5-6	2-8
"		40	6.3	2	3-4	2-8
6AB4		22	6.3	2	1-6	3-7
6AC7		18	6.3	3	4-6-8	3-5-7
6AC9		25	6.3	2	2	1-3
"		25	6.3	2	(2-3)	1-4
"		25	6.3	2	1-3-4-5	2-8
6AC10		21	6.3	2	1-5	4-6
"		21	6.3	2	5-7	1-6
"		21	6.3	2	1-2	6-9
6AD10		15	6.3	3	3-5-6-7	1-2
"		22	6.3	2	2-4-5	3-8
6AF3		20	6.3	3	(2-9)	4-10
6AF4		22	6.3	2	(1-7) (2-6)	3-5

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
5GJ7		18	5.0	3	8-9	(1-3) 4
"		21	5.0	2	2-6-7	(1-3) 4
5GM6		20	5.0	2	1-5-6-7	2-3
5GS7		25	5.0	2	1-2	(3-8) 4
"		22	5.0	2	6-7-9	(3-8) 4
5GX6		13	5.0	1	1-5-6	2-3-7
5GX7		20	5.0	2	8-9	(1-3) 4
"		20	5.0	2	2-6-7	(1-3) 4
5GY6		13	5.0	1	1-5-6	2-3-7
5HA7	5	28	5.0	2	3-7	6-8
"	5	28	5.0	2	1-2	6-9
5HB7		17	5.0	2	8-9	(1-3) 4
"		20	5.0	2	2-6-7	(1-3) 4
5HC7	0	24	5.0	2	7-9	1-4
"	5	24	5.0	2	3-7	6-8
5HG8		21	5.0	2	2-8-9	(1-3) 4
"		23	5.0	2	6-7	(1-3) 4
5HZ6		22	5.0	2	1-5-6-7	2-3
5J6		22	5.0	2	1-6	3-7
"		22	5.0	2	2-5	3-7
5JK6		20	5.0	2	1-5-6-7	2-3
5JL6		15	5.0	3	1-6	2-3
"		20	5.0	1	5-7	2-3
5JW8		22	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5KD8		20	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5KE8		21	5.0	2	2-3-6	4-7
"		23	5.0	2	1-9	4-8
5KZ8		15	5.0	3	1-9	4-8
"		15	5.0	3	2-6-7	3-4
5LJ8		24	5.0	2	1-2	(3-8) 4
"		24	5.0	2	6-7-9	(3-8) 4
5MB8		30	5.0	2	2	3-4
"		22	5.0	2	6-7	4-8
5MF8	0	26	5.0	2	4(6-7) 8	1-0
"	4	25	5.0	2	1-6	2-0
5MHH3		25	5.0	2	2-5	4-7
"		25	5.0	2	1-6	4-7
5MK9		26	5.0	3	5	3
5MQ8		25	5.0	2	2-3-6	5-7
"		25	5.0	2	1-9	5-8
5R4		20	5.0	4	4	2
"		20	5.0	4	6	2
5RDDH1		30	3.3	2	1	2-4
"		30	3.3	2	6	3-4
"		34	3.3	2	7-8	4-9



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6AQ7		20	6.3	4	4-5	6-7
"		19	6.3	1	1	2-7
6AQ8		19	6.3	1	3	2-7
"		22	6.3	2	1-2	3-4
"		22	6.3	2	6-7	4-8
6AR5		25	6.3	3	1-5-6	2-3
6AR8		19	6.3	2	3-6-8-9	1-2-5-7
6AR11	0	22	6.3	2	2-3-4-5	1-6
"	8	22	6.3	2	2-3-4-5	6-9
6AS5		14	6.3	1	(2-5) 6-7	1-3
6AS6		25	6.3	2	1-5-6-7	2-3
6AS7		18	6.3	3	1-2	3-8
"		18	6.3	3	4-5	6-8
6AS8		25	6.3	2	1-2-9	3-4-7
"		25	6.3	2	6	4-8
6AS11	0	23	6.3	2	3-4	1-7
"	0	23	6.3	2	6-8	1-5
"	5	15	6.3	3	2-3-7	1-6
6AT6		28	6.3	2	1-7	2-4
"		35	6.3	1	5	2-4
"		35	6.3	1	6	2-4
6AT8		22	6.3	2	1-2	2-4
"		22	6.3	2	6-7-9	2-4
6AU4		25	6.3	2		3-7
6AU5		20	6.3	3	5	2-3
6AU6		22	6.3	2	1-5-6	2-3-7
6AU7		25	3.3	2	1-2	3(4-5)
"		25	3.3	2	6-7	(4-5) 8
6AU8		29	6.3	2	7-8-9	4-6
"		14	6.3	1	2-3	1-4
6AV5		19	6.3	3	1-5-8	2-3
6AV6		35	6.3	1	6	2-4
"		35	6.3	1	5	2-4
6AV11	0	28	6.3	2	1-7	2-4
"	5	25	6.3	2	5-7	1-6
"	5	25	6.3	2	1-2	6-9
6AW8		25	6.3	2	3-7	6-8
"		22	6.3	2	2-3	1-4
6AX3	7	22	6.3	2	7-8-9	4-6
6AX4		21	6.3	3	4	1-8
6AX5		23	6.3	3	5	3-8
"		37	6.3	3	3	2-8
6AX7		37	6.3	3	5	2-8
"		14	3.3	1	1-2	3(4-5)
6AX8		14	3.3	1	6-7	(4-5) 8
"		24	6.3	2	2-3-6	4-7
"		24	6.3	2	1-9	4-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6AF9#		22	6.3	2	1-3-4	2-6-7
" #		28	6.3	2	8-9-10	2-6
6AF11	0	22	6.3	2	3-4	7-10
"	0	22	6.3	2	6-8	5-10
6AG5	5	14	6.3	3	2-3-7	1-4
6AG7		22	6.3	2	1-5-6	2-4-7
6AG9	0	15	6.3	3	4-6-8	5-7
"	5	17	6.3	3	5-7	1-6
6AG11	4	12	6.3	1	2-3	1-6
"	0	12	6.3	1	1	2-3
"	0	20	6.3	2	3	2-10
"	0	20	6.3	2	5-6	4-10
6AH4		15	6.3	3	1-5	2-8
6AH6		21	6.3	2	1-5-6	4-7
6AH9	0	20	6.3	3	2-3	1-4
6AJ7	7	22	6.3	2	2-5-10	1-8
6AJ8		18	6.3	3	4-6-8	3-5-7
6AK5		22	6.3	2	1-2-6	3-4
"		30	6.3	3	8-9	4
"		26	6.3	2	1-5-6	(2-7) 3
6AK6		28	6.3	3	1-2-5-6	3-7
6AK9	8	25	6.3	2	3-4	2-7
"	8	27	6.3	2	5-6	2-7
6AK10	0	30	6.3	2	2-3	1-7
"	0	25	6.3	2	5-7	1-6
"	6	25	6.3	2	4-8	5-9
6AL3	8	25	6.3	2	4-5	7-10
6AL5		17	6.3	3	(1-2-3-6-7-8-9)	4-10
"		25	6.3	2	2	3-5
6AL9	2	25	6.3	2	7	1-3
"	5	25	6.3	2	7-9	1-8
6AL11		23	6.3	2	2-3-7-9	1-6
6AM4	0	23	6.3	2	3-6-7	1-3-4
6AM8	6	23	6.3	2	3-4	2-7
"		21	6.3	2	(1-3-4-6-9) 5	2-7
6AN4		22	6.3	2	2-3-6	1-4-9
6AN5		24	6.3	2	8	4-7
6AN8		16	6.3	3	(1-7) (2-6)	3-6
"		18	6.3	3	1-5-6	2-7
"		20	6.3	2	1-2	3-4
"		22	6.3	2	6-7-8	4-9
6AQ5		30	6.3	2	(1-7) 5-6	2-3
6AQ6		40	6.3	2	1-7	2-4
"		35	6.3	1	5	2-4
"		32	6.3	1	6	2-4



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6BFG		27	6.3	2	1-7	2-3
"		29	6.3	2	1-5	2-3
6BF7		29	6.3	2	1-6	2-3
"		26	6.3	2	1-2	3-4
6BF8		26	6.3	2	7-8	3-5
"		12	6.3	1	1	4-6
"		12	6.3	1	2	4-6
"		12	6.3	1	3	4-6
"		12	6.3	1	7	4-6
6BF11	0	14	6.3	1	8	4-6
"	7	20	6.3	1	3-5-6-7	1-2
6BH3		20	6.3	3	2-4-5	3-8
6BH6		20	6.3	3	(2-7)	4-9
"		23	6.3	2	1-5-6	2-3-7
6BH8		25	6.3	2	2-3	1-4
"		25	6.3	2	7-8-9	4-6
6BH11	0	20	6.3	2	3-4	1-2
"	0	20	6.3	2	6-7	1-5
6BJ3	7	20	6.3	2	2-3-4	5-8
6BJ6	5	17	6.3	3	(2-9)	4-10
6BJ7		26	6.3	2	1-5-6	2-3-7
"		25	6.3	2	2	1-4
"		25	6.3	2	6	4-7
6BJ8		25	6.3	2	8	4-9
"		14	6.3	1	1	2-5
"		14	6.3	1	6	3-5
"		22	6.3	3	7-8	5-9
6BK4		20	6.3	1	5-10 (1-3-4-6-8)	2
6BK5		24	6.3	3	1(3-7)8	4-6
6BK7		21	6.3	2	1-2	3-5
6BK8	3	21	6.3	2	6-7	4-8
6BK11	2	15	6.3	1	6-9	3-4-8
"	5	13	6.3	1	1-5	4-6
6BL7		13	6.3	1	7-9	3-8
"		13	6.3	1	1-2	6-9
"		19	6.3	3	1-2	3-7
"		19	6.3	3	4-5	6-7
6BL8		25	6.3	2	1-9	4-8
6BM8		25	6.3	2	2-3-6	4-7
6BN4		27	6.3	3	1-9	4-8
6BN6		27	6.3	2	3-6-7	2-4
6BN8		23	6.3	2	(2-7)5	(1-6)3
"		100	6.3	1	2-5-6-7	1-3
6BN8		Good above	40			
"		15	6.3	1	7-8	4-9
"		15	6.3	1	1	2-4
"		15	6.3	1	6	3-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6AY3		20	6.3	3	(2-7)	4-9
6AY11	0	23	6.3	2	3	1-2
"	0	12	6.3	1	5-6	1-4
"	0	12	6.3	1	7-8	1-9
6AZ8	5	23	6.3	2	2	3-6
"		21	6.3	2	1-2-6	3-4
6B8		21	6.3	2	8-9	4-7
"		21	6.3	3	3-6-10	2-8
6B10	0	24	6.3	1	4	2-8
"	0	24	6.3	1	5	2-8
"	0	13	6.3	2	3-4	9-10
"	0	24	6.3	2	5-6	2-10
6B32	5	13	6.3	1	2	7-10
"		25	6.3	2	2	1-4
6BA3		20	6.3	3	(2-7)	3-5
6BA5		14	6.3	1	1-5-7	5-9
6BA6		23	6.3	2	1-5-6	3-8
6BA7		19	6.3	3	1-2	3-7
6BA8		25	6.3	1	1-6-7-9	3-4-6-7
6BA11	0	23	6.3	2	2-3	2-3-4
"	0	23	6.3	1	7-8-9	1-4
"	5	23	6.3	2	2-3-4	4-6
6BB14*		25	6.3	2	6-7	1-8
"		25	6.3	2	1-3	1-8
6BC4		24	6.3	2	(1-2)(6-7)10 (3-8)4	2-6
6BC5		22	6.3	2	●Cap goes to top of tube.	4-6
6BC7		22	6.3	2	*Must use magnoval adapter.	2-3-7
"		22	6.3	2	1-2-3-7-8-9	1-4
6BC8		22	6.3	2	1-5-6	4-7
6BD7		30	6.3	1	6	3-4
"		32	6.3	1	8	3-4
6BD11		27	6.3	2	1-2	3-4
6BE3	0	25	6.3	2	3-4	1-7
6BE6	0	22	6.3	2	6-8	1-5
6BE7	5	24	6.3	2	2-3-7	1-6
6BF5	0	15	6.3	3	4	1-7
"		12	6.3	1	1-5-6-7	2-3
"		26	6.3	2	6-7	(3-8)4
"		19	6.3	3	1-5-6-7	2-3



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6C5		31	6.3	2	3-5	2-8
6C9		23	6.3	2	1-3	2-4-10
6C10	0	13	6.3	2	1-7-8	4-6
"	5	13	6.3	1	5-7	6-10
"	5	13	6.3	1	1-2	4-9
6C16		13	6.3	1	3-7	4-8
"		25	6.3	2	1-9	4-8
6C18		25	6.3	2	2-3-6	4-7
"		15	6.3	1	1-9	4(6-8)
6CA4		13	6.3	1	2-3-7	4(6-8)
"		18	6.3	3	1	3-4
"		18	6.3	3	7	3-4
6CA5		18	6.3	3	(2-5)6-7	1-3
6CA7		15	6.3	3	1-3-4-5	2-8
6CA11	0	25	6.3	2	4-6	1-5
"	0	28	6.3	2	2-3	1-7
"	8	28	6.3	2	3-5-6	4-7
6CB5		19	6.3	3	(1-8)(4-5)10	2(3-6)
6CB6		22	6.3	2	1-5-6-7	2-3
6CC31		22	6.3	2	1-6	3-7
"		22	6.3	2	2-5	3-7
6CC42		25	6.3	3	6-7	1-8
"		25	6.3	2	3-4	1-2
6CC43		22	6.3	2	1-2	3-4
"		22	6.3	2	6-7	4-8
6CD3	0	15	6.3	3	4	1-7
6CD6		15	6.3	3	5-8-10	2-3
6CE3	0	14	6.3	3	4	1-7
6CE5		25	6.3	2	1-5-6	(2-7)3
6CF6		24	6.3	2	1-5-6	2-3
6CG3	0	15	6.3	3	4	1-7
6CG7		32	6.3	2	1-2	3-4
"		32	6.3	2	6-7	4-8
6CG8		22	6.3	2	1-2	(3-8)4
"		24	6.3	2	6-7-9	(3-8)4
6CH3		19	6.3	4	(2-7)	4-9
6CH8		24	6.3	2	2-3-7	4-6
"		26	6.3	2	8-9	1-4
6CJ3		23	6.3	2	(2-7)	4-9
6CJ6		22	6.3	2	2(7-8)10	3-4
6CK3		15	6.3	3	(2-7)	4-9
6CK4		13	6.3	1	(1-3)5	2-8
6CL3		21	6.3	2	(2-7)	4-9
6CL5		19	6.3	3	(1-8)(4-5)C	2(3-6)
6CL6		15	6.3	3	(2-9)(3-8)6	1-4-7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6BN11	0	20	6.3	2	3-4-5-6	1-2
"	7	20	6.3	3	1-3-4-5	2-8
6BQ5		15	6.3	2	(1-2)(6-9)(7-8)	3-4
6BQ6		16	6.3	3	4-5-10	2-8
6BQ7		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
6BR3		22	6.3	3	(2-9)	4-10
6BR7		24	6.3	2	1-2	3-5
"		25	6.3	2	6	5-8
"		25	6.3	2	7	5-8
6BR8		22	6.3	2	1-2	3-4
"		21	6.3	2	6-7-9	4-8
6BS3		17	6.3	3	(2-7)	4-9
6BS8		23	6.3	2	6-7	4-8
"		23	6.3	2	1-2	3-4
6BU8		12	6.3	1	2-7-8	1-4-9
"		12	6.3	1	2-3-7	1-4-6
6BV8		25	6.3	2	2-3	1-4
"		25	6.3	2	6	4-8
"		25	6.3	2	9	4-7
6BY11	0	22	6.3	2	2-3-4-7	1-5
"	7	22	6.3	2	1-4-5-9	2-8
6BW3	0	20	6.3	3	4	1-7
6BW4		35	6.3	3	1	4-9
"		35	6.3	3	7	1-9
6BW6		26	6.3	2	(1-2)7-8-9	3-4
6BW8		25	6.3	2	1	2-4
"		25	6.3	2	3	2-4
"		23	6.3	2	6-8-9	2-4
6BW11	0	22	6.3	2	3-4-5	4-7
"	6	22	6.3	2	1-2-4	1-2
6BX7		23	6.3	3	4-5	3-7
"		23	6.3	3	1-2	3-7
6BY5		25	6.3	3	4	1-2
"		25	6.3	3	5	2-8
6BY6		25	6.3	2	1-5-6-7	2-3
6BY8		24	6.3	2	1-7-8	2-3-4-9
"		22	6.3	1	6	3-4
6BY11	0	22	6.3	2	3-5-6-7	1-2
"	8	22	6.3	2	3-5-6	1-2
6BZ3	0	17	6.3	3	4	4-9
6BZ6		22	6.3	2	1-5-6	1-7
6BZ7		16	6.3	3	1-2	2-3-7
"		16	6.3	3	6-7	3-4
6BZ8		20	6.3	2	1-2	4-8
"		20	6.3	2	6-7	3-5
6C4		25	6.3	3	(1-5)6	4-8



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6DE4	20	6.3	3	5	3-7	
6DE6	15	6.3	3	1-5-6-7	2-3	
6DE7	25	6.3	2	1(2-3)	4-9	
"	32	6.3	2	6-7	4-8	
6DG6	20	6.3	3	3-4-5	2-8	
6DJ8	23	6.3	2	1-2	3-4	
"	23	6.3	2	6-7	4-8	
6DK3	16	6.3	3	(2-7)	4-10	
6DK6	20	6.3	2	1-5-6	2-3-7	
6DL3	25	6.3	2	(2-7)	4-10	
"	●Cap goes to top of tube.					
6DL4	21	6.3	2	(1-3-6-7-9)8	2-4	
6DL5	21	6.3	3	1-5-6-7	2-3	
6DL8	65	6.3	2	9	4-8	
"	65	6.3	2	1	4-8	
"	25	6.3	3	6-7	2-4	
6DM4	20	6.3	3	5	3-8	
6DN3	23	6.3	2	(2-7)	4-9	
6DN7	28	6.3	2	4-5	6-7	
"	25	6.3	2	1-2	3-7	
6DQ3	16	6.3	3	(6-10)	1-9	
6DQ4	22	6.3	3	5	3-8	
6DQ5	17	6.3	3	(1-5) (4-8)10	2(3-6)	
6DQ6	17	6.3	3	4-5-10	2-8	
6DR4	14	6.3	1	(1-5)6	3-7	
6DR7	15	6.3	1	6-7	4-8	
"	17	6.3	3	1-2-3	4-9	
6DS4	12	6.3	1	2-4	3-8	
6DS5	30	6.3	1	5-6	1-2-3-7	
6DS8	24	6.3	3	8-9	3-4	
"	25	6.3	2	1-2-6	3-4	
6DT3	25	6.3	2	(2-9)	6-10	
6DT4	19	6.3	3	(1-5)	3-8	
6DT5	28	6.3	2	3-6-9	4-7	
6DT6	22	6.3	2	1-5-6	2-3-7	
6DT8	22	6.3	2	6-7	4-8	
"	22	6.3	2	1-2	3-4	
6DU3	16	6.3	3	(6-10)	1-9	
6DV4	20	6.3	2	(1-2) (4-6)	5-7	
6DW4	23	6.3	2	(2-7)	4-9	
6DX4	20	6.3	2	(1-7) (2-6)	3-5	
6DX8	13	6.3	1	1-2	3-4	
"	13	6.3	1	6-8-9	4-7	
6DY5	27	6.3	2	2-7-9	3-4	
6DY6	22	6.3	2	(1-7) (2-6)	3-5	

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6CL8	14	6.3	3	1-2	3-4	
6CM3	13	6.3	3	6-7-9	4-8	
6CM4	15	6.3	3	(2-7)	4-9	
6CM5	22	6.3	2	(1-9) (2-6-8)	4(3-7)	
6CM6	15	6.3	3	(1-4) 5-10	(3-8)2	
6CM7	23	6.3	3	1(3-6)9	4-7	
"	15	6.3	1	1-8	4-9	
"	15	6.3	1	6-7	3-4	
6CM8	25	6.3	2	2-6-7	3-4	
6CN7	15	6.3	1	1-9	4-8	
"	15	3.3	1	1	3(4-5)	
"	15	3.3	1	2	3(4-5)	
6CQ4	30	3.3	3	7-8	(4-5)6	
6CQ6	20	6.3	3	5	3-7	
6CQ8	27	6.3	2	1-5-7	2-3	
"	13	6.3	1	1-9	5-8	
"	13	6.3	1	2-3-6	5-7	
6CR6	20	6.3	1	2	1-3	
"	25	6.3	2	5-6-7	1-3	
6CS6	24	6.3	2	1-5-6-7	2-3	
6CS7	25	6.3	2	1-3	4-9	
6CT3	30	6.3	2	6-7	4-8	
6CU5	24	6.3	2	(2-6)	4-9	
6CU6	17	6.3	3	(2-5)6-7	1-3	
6CU8	16	6.3	3	4-5-10	2-8	
"	24	6.3	2	8-9	1-4	
"	24	6.3	2	2-3-7	4-6	
6CW4	13	6.3	1	2-4	3-8	
6CW5	21	6.3	2	(1-2) (6-9) (7-8)	3-4	
6CX8	22	6.3	2	7-8-9	4-6	
"	24	6.3	2	2-3	1-4	
6CY5	15	6.3	3	1-5	2-4-7	
6CY7	12	6.3	1	1(2-3)	4-9	
"	25	6.3	3	6-7	4-8	
6CZ5	25	6.3	2	1(3-6)9	4-7	
6D1	14	6.3	1	(1-5)6	3-7	
6D4	22	6.3	3	1-7	3-5	
6D10	12	6.3	1	1-5	2-6	
"	12	6.3	1	5-7	1-6	
"	12	6.3	1	1-2	4-9	
6DA4	20	6.3	4	5	3-7	
6DB5	25	6.3	3	3-6-9	2-4-7	
6DC6	14	6.3	1	1-5-6-7	2-4	
6DC8	18	6.3	3	1-2-6	3-4-9	
"	20	6.3	1	7	3-4	
"	20	6.3	1	8	3-1	

3
0
5

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6DZ4		24	6.3	2	(1-7) (2-6)	3-5
6DZ7		21	6.3	3	4-5-6	2-8
6DZ8		21	6.3	3	1-3-4	2-8
6E5		14	6.3	1	1-9	4-8
6E8		18	6.3	3	3-6-7	2-4
6EA4●	3	34	6.3	2	2-3-4	1-5
		40	6.3	2	3-4-10	2-8
		31	6.3	2	5-6	2-8
		20	6.3	1	9-10	(1-5-8) 4
6EA5		20	6.3	2	1-5-6	(2-7) 3
6EA7		18	6.3	3	1-2	3-7
6EA8		26	6.3	2	4-5	6-7
6EB8		15	6.3	3	2-3-6	4-7
6EC4●		14	6.3	3	1-9	4-8
6ED4●		13	6.3	1	2-3	1-4
6EF4	2	22	6.3	2	7-8-9	4-6
6EH4●	2	21	6.3	2	(2-7-8) 9	4-10
6EH5		16	6.3	1	8-10 (1-2-3-6-7-9) 4	1-7
6EH7		17	6.3	1	8-10	1-7
6EH8		18	6.3	1	8-10	3(4-7)
6EJ4●	2	19	6.3	4	2-5-6-7	1-3
6EJ7		22	6.3	2	2-7-8	(1-3) 4
6EL4		20	6.3	1	5-10 (1-3-4-6-8) 2	1-5-6
6EM5		26	6.3	3	1 (3-6) 9	4-7
6EM7		14	6.3	2	1-2	3-7
6EN4		13	6.3	1	4-5	6-7
6EQ7		45	6.3	2	(5-6) 10 (1-3-4-8)	2
6ER5		25	6.3	2	1-2-6-7	3-4
		15	6.3	1	2-8	3-4
		13	6.3	1	2-5	(1-7) 3
6ES5		21	6.3	2	2-5-6	1-3-7
6ES6		14	6.3	1	1-5-6	2-4
6ES8		21	6.3	2	1-2	3-4
6ET6		21	6.3	2	6-7	4-8
6EU7		25	6.3	2	1-5-6	2-3
6EU8		12	6.3	1	5-6	2-4
		12	6.3	1	7-8	2-9
		20	6.3	2	2-3	5-6
6EV5		15	6.3	3	1-7-9	5-8
6EV7		22	6.3	2	1-5-6	(2-7) 3
6EW6		20	6.3	2	1-5-6-7	(2-7) 3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6EW7		15	6.3	3	1 (2-3)	5-9
6EX6		25	6.3	3	6-7	5-8
6EZ5		16	6.3	3	5-8-10	2-3
6EZ8		19	6.3	3	3-4-5	2-8
"		13	6.3	1	2-3	1-4
"		13	6.3	1	6-7	4
6F5		13	6.3	1	8-9	4
6F6		14	6.3	1	4-10	2-8
		33	6.3	3	3-4-5	2-8
6F19		18	6.3	2	2-7-8	(1-3) 4
6F21		27	6.3	2	1-5-7	2-3
6F22		23	6.3	3	1-2-6-7-9	3-4
6F26		18	6.3	2	2-7-8	(1-3) 4
6F29		22	6.3	2	2-7-8	(1-3) 4
6F30		22	6.3	2	2-7-8	(1-3) 4
6F33		25	6.3	2	1-5-6-7	2-3
6F35		20	6.3	2	1-5-6	2-3-7
6FD6		12	6.3	1	1-2-5-6	3-7
6FD7		13	6.3	1	1 (2-3)	4-9
"		13	6.3	1	6-7	4-8
6FE5		17	6.3	3	3-4-5	7-8
6FG5		23	6.3	2	1-5-6	(2-7) 3
6FG6		100	6.3	4	2-6-7-8-9	1-3-4
6FG7		17	6.3	3	1-2	3-5-8
6FH5		17	6.3	3	6-7-9	3-5-8
6FH8		22	6.3	2	2-5	(1-7) 4
"		22	6.3	2	2-3	4
"		15	6.3	1	6-7-8	4
"		15	6.3	1	6-7-9	4
6FJ7	0	15	6.3	1	1-6-7	4
6FM7	5	23	6.3	2	3-5	1-7
6FM7	0	30	6.3	2	2-3	1-6
6FM8	7	14	6.3	3	(3-8) 5	1-7
"		13	6.3	1	4-5	3-6
"		13	6.3	1	2	3-4
"		13	6.3	1	6	1-4
"		30	6.3	2	8-9	4-7
6FQ5		20	6.3	4	2-5	4
6FQ7		25	6.3	2	1-2	3-4
6FR7		25	6.3	2	6-7	4-8
6FS5		14	6.3	3	1 (2-3)	5-9
6FV6		25	6.3	3	6-7	5-8
6FV8		25	6.3	2	1-5-6	(2-7) 3
"		13	6.3	1	1-5-6	3-7
"		30	6.3	2	1-2	5-6
"		21	6.3	2	6-7-9	2-8





TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6GU7		23	6.3	2	1-2	3-4
"		23	6.3	2	6-7	4-8
6GV5●	4	20	6.3	3	(2-7)9-10	3(1-8)
6GV7		15	6.3	1	1-9	4(6-8)
"		13	6.3	1	2-3-7	4(6-8)
6GV8		23	6.3	2	1-2	3-4
"		15	6.3	3	6-7-9	4-8
6GW5		23	6.3	2	1(2-6)	3-5
6GW6		17	6.3	3	4-5-10	2-8
6GW8		14	6.3	1	1-9	2-4
"		19	6.3	3	3-6-8	4-7
6GX6		13	6.3	1	1-5-6	2-3-7
6GX7		20	6.3	2	8-9	(1-3)4
"		20	6.3	2	2-6-7	(1-3)4
6GY5●	4	14	6.3	3	(2-7)9-10	(1-8)3
6GY6		13	6.3	1	1-5-6	2-3-7
6GY8		17	6.3	1	1-2	5
"		13	6.3	1	3-9	5-8
"		15	6.3	1	6	5-7
6GZ5		13	6.3	1	(2-5)6-7	1-3
6H6		15	6.3	1	5	2-8
"		15	6.3	1	3	2-4
6HA5		22	6.3	2	1-5	(2-7)3
6HA6		15	6.3	3	2(3-9)(6-8)	1-4
6HB5	0	15	6.3	3	2-3-7	4-10
6HB6		15	6.3	3	2(6-8)	1-5
"		18	6.3	1	(3-9)7	1-5
6HB7		20	6.3	2	8-9	(1-3)4
"		20	6.3	2	2-6-7	(1-3)4
6HD5	0	15	6.3	3	3-5-7-9	4-10
6HD7		23	6.3	2	2-6-7	(1-3)4
"		23	6.3	2	8-9	(1-3)4
6HE5	0	18	6.3	3	(2-9)3-6	4-10
6HE7	4	15	6.3	3	6	(3-5)8
"	7	15	6.3	3	3-5-10	2(6-8)
6HF5●	2	15	6.3	3	5-8(7-10)	1-6
6HF8		13	6.3	1	2-3	1-5
"		15	6.3	3	7-8-9	5-6
6HG5		21	6.3	3	(1-7)5-6	2-4
6HG8		21	6.3	2	2-8-9	(1-3)4
"		23	6.3	2	6-7	(1-3)4
6HJ5	0	13	6.3	3	3-4(5-9)7	1-2
6HJ8		20	6.3	3	8	4-7
"		20	6.3	3	2-3-6	1-4-9
6HK5		21	6.3	2	1-5	(2-7)3
6HL5		15	6.3	3	(1-2)7-9	3-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6FWS		18	6.3	3	1-2	3-4
"		18	6.3	3	6-7	4-8
6FY5		22	6.3	2	2-5	1-3-7
6FY7	0	15	6.3	3	3-5	7-10
"	5	13	6.3	1	2-3	1-4
6G11	6	20	6.3	3	1-3-4	2-7
"	0	28	6.3	2	3-6-7	2-10
6GA7	0	16	6.3	3	(2-3)4-7	5-10
"	7	20	6.3	3	5	2-6
6GB3		25	6.3	2	4-5-10	7-8
6GB5●		14	6.3	3	(1-2)(6-7)10	(3-8)4
6GB6		20	6.3	3	4-6-10	2-8
6GB7		23	6.3	2	4-5-10	2-8
6GB9		17	6.3	3	4-5-10	2-8
6GC5		21	6.3	3	(1-8)(3-6)9	5-7
6GC6		15	6.3	3	(4-8)5-10	2-3
6GE5	0	15	6.3	3	2-3-7	1-4
6GE8		27	6.3	3	3-6	2-4
"		15	6.3	1	1-8-9	4-7
6GF5	0	16	6.3	3	2-3-7	4-10
6GF7		17	6.3	3	2-6	3-4
"		15	6.3	1	8-9	1-4
6GH8		21	6.3	2	2-3-6	4-7
"		21	6.3	2	1-9	4-8
6GJ5●		16	6.3	3	(1-7)(2-6)8-10	3-4
6GJ7		18	6.3	3	8-9	(1-3)4
"		21	6.3	2	2-6-7	(1-3)4
6GK5		15	6.3	3	2-5	(1-7)3
6GK6		30	6.3	2	2-7-8	(3-9)1-4
6GK17		19	6.3	3	5	3-7
6GL7		25	6.3	2	4-5	6-8
"		22	6.3	2	1-2	3-8
6GM5		24	6.3	2	1-6-9	4-7
6GM6		20	6.3	2	1-5-6-7	2-3
6GM8		16	6.3	1	1-2	3-4
"		15	6.3	1	6-7	4-8
6GN8		13	6.3	1	2-3	1-4
"		17	6.3	3	7-8-9	4-6
6GQ7		20	6.3	3	2	1-4
"		20	6.3	3	6	4-7
6GS7		20	6.3	3	8	4-9
"		25	6.3	2	1-2	(3-8)4
6GT5		17	6.3	3	6-7-9	(3-8)4
6GU5		23	6.3	2	(1-7)(2-6)9	3-4
"			6.3	2	1-5-6	(2-7)3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6HL8		21	6.3	2	1-9	4-8
"		26	6.3	2	3-6	4-7
6HM5		22	6.3	2	1-5	(2-7)3
6HM6		22	6.3	2	2-7-8	(1-3)4-9
6HQ5		22	6.3	2	1-5	(2-7)3
6HR5		21	6.3	3	(1-7)5-6	2-3
6HR6		14	6.3	3	1-2-5-6	4-7
6HS5	0	15	6.3	3	2-3-7	4-10
6HS8		22	6.3	4	2-7-8	1-5-6
"		22	6.3	4	2-3-7	1-5-9
6HT5	2	40	6.3	2	8-10	3-7
6HT6		24	6.3	2	2-7-8	1-3-4-9
6HU6		15	6.3	1	1(2-6-8)	3-4
"		15	6.3	1	7	3-4
"		15	6.3	1	9	3-4
6HU8		22	6.3	2	1-2-3	3-4
"		22	6.3	2	6-8-9	4-7
6HV5	0	15	6.3	3	2-3-7	4-10
6HZ5	0	15	6.3	3	2-3-7	4-10
6HZ6		22	6.3	2	1-5-6-7	2-3
6HZ8		25	6.3	2	2-3	1-5
"		15	6.3	3	7-8-9	5-6
6J4		23	6.3	2	1-5-6-7	2-3
6J5		24	6.3	2	3-5	2-8
6J6		22	6.3	2	1-6	3-7
"		22	6.3	2	2-5	3-7
6J7		20	6.3	1	3-4-10	2-5-8
6J9		20	6.3	2	1-2	3-4
"		20	6.3	2	6-9	4-10
"		20	6.3	2	7-8	4-10
6J10	5	16	6.3	3	1-3-7	6-8
"	0	75	6.3	1	4-5-6-7	1-8
6J11	0	Good	above	25	2-3-4-5	6-10
"	7	15	6.3	3	1-3-4-5	2-6
6JA5	0	27	6.3	2	3(2-9)6	1-4
6JA8		26	6.3	2	7-8-9	4-6
"		14	6.3	1	2-3	1-4
6JB5	0	23	6.3	3	(2-9)3-6	4-10
6JB6	0	23	6.3	3	(1-7)(2-6)8-10	3-4
6JC5		20	6.3	3	(2-9)3-6	4-10
6JC6		20	6.3	2	2-7-8-9	(1-3)4
6JC8		16	6.3	3	2-3-6	1-5-7-8-9
"		18	6.3	3	8-9	1-2-3-5-6-7
6JD5	0	15	6.3	3	2-3-7	4-10
6JD6		15	6.3	3	2-7-8	(1-3)4-9

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6JE6		18	6.3	3	(1-7)(2-6)10	3-4-8
6JE8		20	6.3	2	2-3	1-4
"		16	6.3	3	7-8-9	4-6
6JF6		15	6.3	3	(1-7)(2-6)8-10	3-5
6JG5		25	6.3	2	7-8-9	4-6
6JG6		15	6.3	3	(1-7)2-6-9	3-4
6JH5	0	25	6.3	2	2-3(7-8)	1-4
6JH6		20	6.3	2	1-5-6	2-3-7
6JH8		17	6.3	3	3-6-8-9	1-2-4-7
6JK5	0	25	6.3	2	2-3(7-8)	1-4
6JK6		20	6.3	2	1-5-6-7	2-3
6JK8		21	6.3	2	1-2	3-4
"		21	6.3	2	6-7	4-8
6JL6		15	6.3	3	1-6	2-3
"		20	6.3	1	5-7	2-3
6JM6	2	15	6.3	3	5-6-7-10	3-4
6JN6	5	15	6.3	3	(2-9)3-8-10	6-7
6JN8		14	6.3	3	1-2	3-4
"		14	6.3	3	6-7-9	4-8
6JQ6		15	6.3	1	1(2-3)6(7-8)	4-9
6JR6		24	6.3	2	(1-7)2-6-9	3-4
6JS6	3	16	6.3	3	(1-6)7-8	4-5
6JT6		17	6.3	2	(1-7)2-6-9	3-4
6JT8		21	6.3	3	2-3	1-4
6JU6		16	6.3	1	7-8-9	4-6
6JU8		15	6.3	3	(1-7)(2-6)8-10	3-4
"		19	6.3	1	1	4-2
"		15	6.3	1	1-2	4
"		15	6.3	1	7	4-8
6JV8		19	6.3	1	7-8	4
"		12	6.3	1	2-3	1-4
6JW8		20	6.3	3	7-8-9	4-6
"		22	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
6JX8		12	6.3	1	8-9	3-4
"		12	6.3	1	2-6-8	3-4
6JY8		24	6.3	2	2-3	1-4
"		25	6.3	2	7-8-9	4-6
6JZ6	3	15	6.3	2	6-7-8-10	4-5
6JZ8	0	15	6.3	3	4(6-7)8	1-9
"	4	25	6.3	3	1-6	2-5
6K6		29	6.3	3	3-4-5	2-8
6K7		35	6.3	2	3-4-10	2-8
6K8		19	6.3	1	3-4	2-8
"		14	6.3	1	4-5	2-8
"		14	6.3	1	5-6	2-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6LB8		25	6.3	2	2-3	1-4
"		14	6.3	3	7-8-9	4-6
6LC6		15	6.3	1	5-10	2-6
6LC8		21	6.3	2	6-8-9	3-5-7
"		23	6.3	2	1-2	3-5
6LD6		20	6.3	4	2(6-8)7	1-4
6LE8		23	6.3	2	1-2-8-9	3-4
"		23	6.3	2	6-7-8-9	3-4
6LF6	2	16	6.3	3	5-6-7-10	1-4
6LF8		15	6.3	3	7-8-9	4-6
"		20	6.3	1	2-3	1-4
6LG6		25	6.3	2	2(4-9)10	3-5
6LH6		45	6.3	4	5-10	2-6
6LJ6		50	6.3	2	5-10	2-6
6LJ8		24	6.3	2	1-2	(3-8)4
"		24	6.3	2	6-7-9	(3-8)4
6LM8		22	6.3	2	2-3-6	4-7
"		22	6.3	2	1-9	4-8
6LN8		22	6.3	2	2-3-6	4-7
"		24	6.3	2	1-9	4-8
6LQ6		15	6.3	3	(1-7)(2-6)10	3-4
6LQ8		21	6.3	2	2-3	1-4
"		21	6.3	2	7-8-9	4-6
6LR6	3	15	6.3	3	(1-6)7-8	4-5
6LR8		23	6.3	2	2-6-7	3-4
"		26	6.3	2	8-9	1-4
6LT8		22	6.3	2	2-3-9	1-4
"		24	6.3	2	6	4-7
"		24	6.3	2	8	4-7
6LU6		26	6.3	2	1-5-6-7	2-3
6LU8	0	17	6.3	3	4(6-7)8	1-9
"	4	12	6.3	1	1-6	2-5
6LV6	2	15	6.3	3	5-6-7-10	1-4
"					●Cap goes to top of tube.	
6LW6		16	6.3	3	1-3-5-10	(2-6)7
6LX6	3	17	6.3	3	(1-6)7-8	4-5
"					●Cap goes to top of tube.	
6LY8		22	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
6LY8		25	6.3	2	2-3	1-4
"		20	6.3	2	7-8-9	4-6
6LZ6		26	6.3	2	(1-7)(2-6)9	3-4
"					●Cap goes to top of tube.	
6M3	0	15	6.3	4	(3-5-7)	(1-2)10
6M11	0	20	6.3	2	5-6	1-4
"	4	20	6.3	2	7-8	1-9
"		14	6.3	3	2-6-7	1-3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6K11	0	30	6.3	3	5-7	6-10
"	5	30	6.3	2	1-2	7-9
"	6	30	6.3	3	4-8	7-9
6KA8		25	6.3	2	7-8-9	3-4
"		30	6.3	2	1	3-4
6KD6	2	20	6.3	2	5-7-10	3-4
6KD8		20	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
6KE8		21	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
6KF8		22	6.3	2	2-3-7	1-4-6
"		22	6.3	2	2-7-8	1-4-9
6KG6*		20	6.3	4	(1-8)(2-7)(3-6)10	4-9
6KH8		22	6.3	3	1-2	4-7
"		18	6.3	3	2-3-9	4-7
"		18	6.3	3	6-8-9	4-7
6KL8		20	6.3	1	8	3-4
"		14	6.3	1	2-6-7	1-3-4
6KM6		16	6.3	3	(1-7)(2-6)8-10	3-4
6KM8		80	6.3	2	1-2-9	4-6
"		24	6.3	2	7-8	4-6
"		21	6.3	1	3	4-6
6KN8		23	6.3	2	1-2	3-4
"		23	6.3	2	6-7	4-8
6KN6	2	13	6.3	3	5-6-7-10	1-4
6KR8		15	6.3	3	7-8-9	4-6
"		15	6.3	3	2-3	1-4
6KS6		100	6.3	1	2-5-6-7	1-3
"					Good above 40	
6KT6		20	6.3	2	2-7-8-9	(1-3)4
6KT8		22	6.3	2	2-3	1-4
"		22	6.3	2	7-8-9	4-6
6KU8		27	6.3	1	2	1-4
"		27	6.3	1	3	1-4
6KV6		22	6.3	2	7-8-9	4-6
6KY8		18	6.3	3	1(2-7)9	3-4
"		12	6.3	1	2-3	1-4
6KX8		22	6.3	2	7-8-9	4-6
"		26	6.3	2	1-3	2-4
6KY6		26	6.3	2	7-9	4-8
6KY8		14	6.3	3	2(1-7)9	1(3-9)4
"		18	6.3	3	2-6-7	3-4
6KZ8		13	6.3	1	8-9	1-4
"		15	6.3	3	1-9	4-8
6L6		15	6.3	3	2-6-7	3-4
6LB6	2	19	6.3	3	3-4-5	2-8
"		20	6.3	4	5-6-10	3-4-7

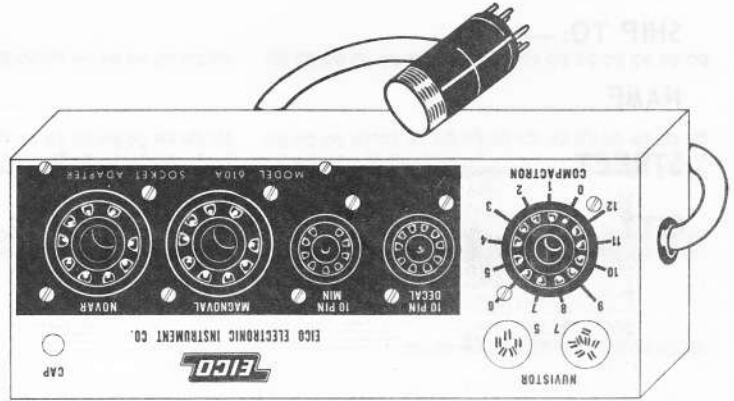
TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6MA6	50	6.3	2	6-10	3-7	
6MB6	27	6.3	2	(2-9) (3-8)	4-7	
6MB8	30	6.3	2	Cap goes to top of tube.	3-4	
6MC6	22	6.3	2	6-7	4-8	
6MD8	27	6.3	2	(1-7) (2-6) 10	3-4	
"	24	6.3	2	Cap goes to top of tube.	4-7	
"	24	6.3	2	1-9	4-7	
6ME5	24	6.3	2	2-8	4-7	
"	24	6.3	2	3-6	4-7	
"	32	6.3	2	1-2	4-7	
"	0	6.3	4	2-5	1-4-7	
"	Eye closed.					
"	0	6.3	4	5	1-2-4-7	
"	Eye open.					
6ME6	25	6.3	2	(1-7) (2-6) 10	3-4	
"	16	6.3	3	Cap goes to top of tube.		
6ME8	16	6.3	3	1-3-6-8	2-5-7-9	
6MF8	23	6.3	2	2-3-6-9	1-5-7-8	
6MG8	23	6.3	2	4(6-7)8	1-9	
6MH1	24	6.3	2	1-6	2-5	
6MH3	24	6.3	2	1-9	5-8	
6MH6	24	6.3	2	2-3-6	5-7	
6MJ6	23	6.3	2	1-5-6-7	2-3	
6MJ8	25	6.3	2	2-5	4-7	
"	25	6.3	2	1-6	4-7	
6MK6	16	6.3	3	5-6-7-10	1-4	
6ML4	18	6.3	3	Cap goes to top of tube.		
6ML8	26	6.3	2	(1-7) (2-6) 10	3-4-8	
6MN8	26	6.3	2	1-5	4-6	
6MP17	26	6.3	2	1-8	5-7	
6MP20	26	6.3	2	6-8	1-3	
6MQ8	22	6.3	2	2-3-7	1-4-6	
6MU8	22	6.3	2	2-7-8	1-4-9	
"	25	6.3	2	(1-7) (2-6)	3-5	
"	24	6.3	2	1-9	4-7	
"	24	6.3	2	2-8	4-7	
"	24	6.3	2	3-6	4-7	
6MN8	20	6.3	3	6-8	3-10	
"	20	6.3	3	2-9	6-8	
6MP17	20	6.3	3	3-7	6-8	
6MP20	27	6.3	2	1-5-6	2-3	
6MQ8	25	6.3	2	1-5-6-7	2-3	
6MU8	25	6.3	2	2-3-6	5-7	
"	25	6.3	2	1-9	5-8	
"	26	6.3	2	1-9	4-8	
"	26	6.3	2	2-3-6	4-7	

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6MV8	32	6.3	2	2-3	2-3	4
6MX8	30	6.3	2	7-8-9	7-8-9	4
6MY8	18	6.3	3	2-6-7	2-6-7	3
6N3	13	6.3	1	8-9	8-9	1-4
6N4	16	6.3	3	4(6-7)8	4(6-7)8	1-9
6N7	12	6.3	1	1-6	1-6	2-5
"	20	6.3	3	9	9	3-4
"	24	6.3	2	(1-7)5	(1-7)5	(2-6)3
"	30	6.3	1	5-6	5-6	2-8
"	30	6.3	3	3-4	3-4	2-8
6PL12	27	6.3	3	1-9	1-9	4-8
6Q4	27	6.3	2	3-6-7	3-6-7	2-4
6Q8	15	6.3	3	1-2-7-8-9	1-2-7-8-9	3-4
6Q11	32	6.3	2	5-6	5-6	2-8
"	40	6.3	2	3-4	3-4	2-8
"	14	6.3	1	5-7	5-7	6-10
"	14	6.3	1	3-7	3-7	4-8
6R3	25	6.3	2	1-2	1-2	4-9
6R4	22	6.3	2	2-9	2-9	4-10
"	20	6.3	3	1-8	1-8	3-4
6R8	28	6.3	2	2	2	3-4
"	25	6.3	2	6	6	4-7
"	28	6.3	2	1	1	4-7
6RA6	28	6.3	2	8-9	8-9	4-7
6RA9	25	6.3	2	(2-7)9	(2-7)9	1-4
6RB11	25	6.3	2	(2-7)9	(2-7)9	1-4
6RHH2	26	6.3	2	1(3-6)9	1(3-6)9	4-7
6RHH8	25	6.3	2	1-2	1-2	3-4
"	25	6.3	2	6-7	6-7	4-8
"	23	6.3	2	1-2	1-2	3-4
"	23	6.3	2	6-7	6-7	4-8
6RK19	22	6.3	3	(2-9)	(2-9)	4-10
6RP15	23	6.3	2	(1-2)7-9	(1-2)7-9	3-4
6RP22	25	6.3	2	(2-9) (3-8)6	(2-9) (3-8)6	1-4
6SA7	21	6.3	3	(3-6)9	(3-6)9	2-4
6SC7	26	6.3	2	3-4-5	3-4-5	2-6
"	30	6.3	2	2-3	2-3	6-8
"	30	6.3	2	4-5	4-5	6-8
6SH5	20	6.3	2	2-3-7	2-3-7	1-4
6SH7	22	6.3	2	4-6-8	4-6-8	2-3-5
6SH8	25	6.3	2	2-3-7	2-3-7	1-4-6
6SJ7	25	6.3	2	2-7-8	2-7-8	1-4-9
6SK7	15	6.3	1	3-4-6-8	3-4-6-8	2-5
6SL7	30	6.3	2	4-6-8	4-6-8	2-3-5
"	31	6.3	3	1-2	1-2	3-7
"	31	6.3	3	4-5	4-5	6-7

USE ORDER FORM ON REVERSE SIDE

- A SOCKET ADAPTER UNIT THAT INSTANTLY MODERNIZES YOUR TUBE TESTER FOR ABOVE TYPE TUBES.
- THE HANDY FLEXIBLE CABLE PLUG IS SIMPLY INSERTED INTO THE EXISTING 9 PIN SOCKET OF YOUR TUBE TESTER. ATTACH THE TESTERS GRID CAP TO THE ADAPTER AND THE UNIT IS NOW READY TO OPERATE.

MODEL 610A ADAPTER



NET PRICE: \$20.40 plus \$1.55 shipping and handling

- 10 PIN MIN
- 12 PIN COMPACTRON
- 5 PIN NUVIOR
- 7 PIN NUVIOR
- 9 PIN MAGNOVAL
- 9 PIN NOVAR

10 PIN DECAL
AND NEWLY RELEASED TYPES

TEST ALL THE NEW TUBES

KEEP YOUR **LEICO** TUBE TESTER Up-To-Date

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6SN7		25	6.3	2	1-2	3-7
6SQ7		25	6.3	2	4-5	6-7
"		15	6.3	1	2-6	3-8
"		28	6.3	1	4	3-8
"		28	6.3	1	5	3-8
6T4		20	6.3	2	(1-7) (2-6)	3-5
6T8		15	6.3	1	2	3-4
"		15	6.3	1	6	4-7
"		15	6.3	1	1	4-7
6T9	0	25	6.3	3	8-9	4-7
"		25	6.3	2	2-4	1-5
6T10	0	22	6.3	2	1-3-4	2-7
"	7	18	6.3	3	3-5-6-7	1-2
"		18	6.3	3	2-4-5	3-8
6U3		17	6.3	3	9	3-4
6U8		20	6.3	2	2-3-6	4-7
6U9#		23	6.3	2	1-9	4-8
#		22	6.3	2	3-4-7-8	2-6
6U10	3	26	6.3	2	9-10	1-6
"	5	25	6.3	2	1-5	2-6
"	0	13	6.3	1	1-2	4-9
6V3		17	6.3	3	5-7	6-10
6V4		22	6.3	3	(2-7-9)	4-10
"		22	6.3	3	1	3-4
"		22	6.3	3	7	3-4
6V6		20	6.3	3	3-4-5	2-8
6V9#		30	6.3	2	2-3-4	6-1
#		30	6.3	2	8-10	6-9
6W6		23	6.3	3	3-4-5	2-8
6X4		32	6.3	3	1	3-7
"		32	6.3	3	6	3-7
6X5		32	6.3	3	3	2-8
"		32	6.3	3	5	2-8
6X8		24	6.3	2	2-3	4-6
"		24	6.3	2	7-8-9	1-4-6
6X9#		24	6.3	2	3-4-7	2-6
#		25	6.3	2	9-10	1-6
6Y6		19	6.3	3	3-4-5	2-8
6Y9#		24	6.3	2	1-3-4	2-6
#		25	6.3	2	8-9-10	6-7
6Y10	0	23	6.3	2	3-5-6-7	1-2
"	7	23	6.3	2	2-4-5	3-8
6Z10	5	16	6.3	3	1-3-7	6-8
"	0	100	6.3	1	4-5-6-7	1-8
7A6		Good above	25	1	3	1-2
"		16	6.3	1	6	1-7
"		16	6.3	1		1-7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
7A8	30	6.3	2	3-4	1-7	
7A7	40	6.3	2	2-5-6	1-7	
7A6	27	6.3	3	1-3-5	2(4-6-8)	
7A5	22	6.3	2	2-3-6	1-4-5-7	
7A4	25	6.3	2	1-2	3(4-5)	
7A3	25	6.3	2	6-7	(4-5)8	
7A2	28	6.3	2	2-3-6	1-4-7	
7A1	23	6.3	3	2-3-6	1-7	
"	34	6.3	3	2-3	1-4-7	
"	22	6.3	1	5	1-4-7	
"	22	6.3	1	6	1-4-7	
7C7	12	6.3	1	2-3-6	1-4-7	
7E5	25	6.3	2	(1-5)(3-7)	2(4-6)	
7E8	25	7.5	2	6-7	5-8	
7F7	25	7.5	2	1-2	3-5	
7G7	15	6.3	1	3-4	1-2	
7G8	15	6.3	1	5-6	1-7	
7G9	25	6.3	2	1-2	(3-8)4	
7G10	22	6.3	2	6-7-9	(3-8)4	
7G11	15	6.3	1	1-9	4(6-8)	
7G12	13	6.3	1	2-3-7	4(6-8)	
7GX7	20	7.5	2	8-9	(1-3)4	
7HG8	20	7.5	2	2-6-7	(1-3)4	
7K7	21	6.3	2	2-8-9	(1-3)4	
"	23	6.3	2	6-7	(1-3)4	
"	14	6.3	1	3-4	1-2	
"	25	6.3	1	5	1	
"	25	6.3	1	6	1	
7KY6	14	7.5	3	2-7-8	1(3-9)4	
7KZ6	14	7.5	3	2-7-8	1(3-9)4	
7MP18	25	7.5	2	(1-7)	2-3	
7N7	26	6.3	2	5-6	1-7	
7W7	26	6.3	2	3-4	1-2	
8A8	24	6.3	2	2-3-6	1(4-7)5	
8A9	21	7.5	2	2-3-6	5-7	
8A10	24	7.5	3	1-9	5-8	
8A11	25	7.5	2	2	1-3	
"	25	7.5	2	(2-3)	1-4	
8A12	25	7.5	2	1-3-4-5	2-8	
8A13	21	7.5	2	1-5	4-6	
"	21	7.5	2	5-7	1-6	
8D8	21	7.5	2	1-2	1-6	
8A14	30	7.5	2	1-6-8-9	3-4	
8A15	25	7.5	2	7-9	1-8	
8A16	23	7.5	2	2-3-7-9	1-6	
8A17	22	7.5	2	2-3-4-5	1-6	
8A18	22	7.5	2	2-3-4-5	6-9	

COLETRONICS SERVICE INC.
(EICO) TUBE DATA SERVICE

1744 Rockaway Ave.
Hewlett, N.Y. 11557

SHIP TO: —

Please ship Model 610A Adapter at \$21.95 each.

Enclosed find check or money order totaling.....

New York City Residents - Add 7%
New York State Residents - Add 7%
Canada - Add \$3.00 For Exchange
And Shipping

NAME

STREET

CITY

STATE

Zip Code

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
8BT7	24	7.5	2	7-8-9	4-6	
"	45	7.5	1	3	1-4	
"	45	7.5	1	2	1-4	
8BQ7	25	7.5	2	1-2	3-4	
"	25	7.5	2	6-7	4-8	
8CJ7	18	7.5	3	8-9	(1-3)4	
"	21	7.5	2	2-6-7	(1-3)4	
8CN8	13	7.5	1	2-3	1-4	
"	17	7.5	3	7-8-9	4-6	
8CU7	23	7.5	2	1-2	3-4	
"	23	7.5	2	6-7	4-8	
8HA6	15	7.5	3	2(3-9)(6-8)	1-4	
8HG8	21	7.5	2	2-8-9	(1-3)4	
"	23	7.5	2	6-7	(1-3)4	
8JE8	20	7.5	2	2-3	1-4	
"	16	7.5	3	7-8-9	4-6	
8JT8	21	7.5	3	2-3	1-4	
"	21	7.5	2	7-8-9	4-6	
8JU8	15	7.5	1	1	2-4	
"	19	7.5	1	1-2	4-8	
"	15	7.5	1	7	4-8	
"	19	7.5	1	7-8	4-8	
8JV8	13	7.5	1	2-3	1-5	
"	17	7.5	3	7-8-9	5-6	
8KI1	28	7.5	3	5-7	6-10	
"	30	7.5	2	1-2	6-9	
"	28	7.5	3	4-8	7-9	
8KA8	25	7.5	2	7-8-9	3-4	
"	30	7.5	2	1	3-4	
8KR8	15	7.5	3	7-8-9	4-6	
"	15	7.5	3	2-3	1-4	
8KS8	19	7.5	2	7-8-9	4-6	
"	24	7.5	2	2-3	1-4	
8LC8	21	7.5	2	6-8-9	3-5	
"	23	7.5	2	1-2	3-5	
8LF8	23	7.5	2	1-2-8-9	3-4	
"	23	7.5	2	6-7-8-9	3-4	
8LS6	25	7.5	2	2(3-9)7	1-4	
8LT8	22	7.5	2	2-3-9	1-4	
"	24	7.5	2	6	4-7	
"	24	7.5	2	8	4-7	
8LX8	22	7.5	2	2-3-6	4-8	
"	23	7.5	2	1-9	4-8	
8MD8	24	7.5	2	1-9	4-7	
"	24	7.5	2	2-8	4-7	
"	24	7.5	2	3-6	4-7	

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
8AV11	0	25	7.5	2	5-7	1-6
"	5	25	7.5	2	1-2	6-9
"	5	25	7.5	2	3-7	6-8
8AW8	22	7.5	2	2-3	1-4	1-4
"	22	7.5	2	7-8-9	4-6	4-6
8B8	32	7.5	2	1-9	4-8	4-8
"	21	7.5	2	3-6-7	2-4	2-4
8B10	5	26	7.5	2	1-4	1-4
"	0	26	7.5	2	8	9-10
"	0	25	7.5	2	5-6	7-10
"	0	25	7.5	2	3-4	2-10
8BA8	25	7.5	2	2-3	1-4	1-4
"	23	7.5	2	7-8-9	4-6	4-6
8BA11	0	23	7.5	2	2-3-4	1-8
"	0	23	7.5	1	4-6-7	1-8
"	5	25	7.5	2	1-3	2-6
8BH8	25	7.5	2	2-3	1-4	1-4
"	25	7.5	2	7-8-9	4-6	4-6
8BM11	7	23	7.5	2	2-3-4-6	1-5
"	7	23	7.5	2	1-2-3-5	4-6
8BN11	0	20	7.5	2	3-4-5-6	1-2
"	7	20	7.5	2	1-3-4-5	2-8
8BQ5	0	18	7.5	3	(1-2)(6-9)(7-8)	3-4
8BQ11	7	20	7.5	2	2-3-4-5	1-6
"	7	20	7.5	2	1-2-3-4	5-6
8BU11	0	22	7.5	2	3-4	1-2
"	0	22	7.5	2	6-7	1-5
"	6	22	7.5	2	1-2-3	4-7
8CB11	0	22	7.5	2	2-3-4-5	1-6
"	8	22	7.5	2	2-3-4-5	6-9
8CG7	29	7.5	2	6-7	8-4	8-4
"	29	7.5	2	1-2	3-4	3-4
8CN7	30	5.0	3	7-8	(4-5)6	(4-5)6
"	15	5.0	1	2	3(4-5)	3(4-5)
"	15	5.0	1	1	3(4-5)	3(4-5)
8CS7	25	7.5	2	1-3	4-9	4-9
"	30	7.5	2	6-7	4-8	4-8
8CW5	21	7.5	2	(1-2)(6-9)(7-8)	3-4	3-4
8CX8	22	7.5	2	7-8-9	4-6	4-6
"	24	7.5	2	2-3	1-4	1-4
8CY7	12	7.5	1	1(2-3)	4-9	4-9
"	25	7.5	3	6-7	4-8	4-8
8DX8	26	7.5	2	8-9	3-5-6-7	3-5-6-7
"	26	7.5	2	1-2	3-5	3-5
8EB8	13	7.5	1	2-3	1-4	1-4
"	22	7.5	2	7-8-9	4-6	4-6
8EM5	26	7.5	2	1(3-6)9	4-7	4-7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
9MH3		25	7.5	2	2-6	3-7
"		25	7.5	2	1-5	3-7
9M18		24	7.5	2	1-9	4-7
"		24	7.5	2	2-8	4-7
"		24	7.5	2	3-6	4-7
9MN8	0	20	7.5	3	6-8	3-10
"	5	20	7.5	3	2-9	6-8
"	5	20	7.5	3	3-7	6-8
9MP12		27	7.5	2	1-5-6	2-4
9RAG		25	7.5	2	(2-7)9	1-4-9
9RAL1		20	7.5	2	1(2-3)	4-9
"		25	7.5	2	6-7	4-8
9UR		20	7.5	2	2-3-6	4-7
"		23	7.5	2	1-9	4-8
9V9#		30	7.5	2	2-3-4	1-6
"#		30	7.5	2	8-10	6-9
9X8		24	7.5	2	2-3	4-6
"		24	7.5	2	7-8-9	1-4-6
10AF11	0	28	7.5	2	3-4	7-10
"	0	26	7.5	2	6-8	5-10
"	5	26	7.5	2	2-3	1-4
10AL11	6	25	7.5	2	1-3-4	2-5
"	0	25	7.5	2	3-4-6-7	2-5-10
10BQ5		18	7.5	3	(1-2)(6-9)(7-8)	3-4
10C8		24	7.5	2	1-2	3-4
"		19	7.5	2	6-7-8	4-9
10CW5		21	7.5	2	(1-2)(6-9)(7-8)	3-4
10DE7		25	7.5	2	1(2-3)	4-9
"		32	7.5	2	6-7	4-8
10DX8		13	7.5	1	1-2	3-4
"		13	7.5	1	6-8-9	4-7
10EB8		13	7.5	1	2-3	1-4
"		22	7.5	2	7-8-9	4-6
10EG7		13	7.5	1	1-2	3-7
"		13	7.5	1	4-5	6-7
10EM7		15	7.5	2	1-2-3	4-9
"		16	7.5	3	6-7	4-8
10EW7		15	7.5	3	1(2-3)	5-9
"		25	7.5	3	6-7	5-8
10FD7		13	7.5	1	1(2-3)	4-9
"		13	7.5	1	6-7	4-8
10FG7		17	7.5	3	2-6	3-4
"		15	7.5	1	8-9	1-4
10GK6		30	7.5	2	2-7-8	1(3-9)4
10GN8		13	7.5	1	2-3	1-4
"		17	7.5	3	7-8-9	4-6

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
8MU8		26	7.5	2	1-9	4-8
"		26	7.5	2	2-3-6	4-7
8U9#		22	7.5	2	3-4-7-8	2-6
"#		26	7.5	2	9-10	1-6
8X9#		24	7.5	2	3-4-7	2-6
"#		25	7.5	2	9-10	1-6
9A8		31	7.5	2	2-3-6	5-7
"		24	7.5	3	1-9	5-8
9AH9	0	20	7.5	3	2-3	1-4
"	7	23	7.5	2	2-5-10	1-8
9AK10	0	25	7.5	2	5-7	1-6
"	6	25	7.5	2	4-8	5-9
"	8	25	7.5	2	4-5	7-10
9AM10	0	25	7.5	2	5-7	1-6
"	6	25	7.5	2	4-8	5-9
"	8	22	7.5	2	4-5	7-10
9AQ8		22	7.5	2	1-2	3-4
"		22	7.5	2	6-7	4-8
9AU7		25	5.0	2	1-2	3(4-5)
"		25	5.0	2	6-7	(4-5)8
9BJ11	0	25	7.5	2	2-3-4-6	5-10
"	8	25	7.5	2	2-3-4-6	5-10
9BR7		26	5.0	2	7	5-9
"		26	5.0	2	6	4-5-8
"		25	5.0	2	1-2	3-4-5
9CG8		22	7.5	2	1-2	(3-8)4
"		24	7.5	2	6-7-9	(3-8)4
9CL8		14	7.5	3	1-2	3-4
"		13	7.5	3	6-7-9	4-8
9DZ8		18	7.5	1	1-9	4-8
"		14	7.5	3	3-6-7	2-4
9EA8		15	7.5	3	2-3-6	4-7
"		14	7.5	3	1-9	4-8
9ED4		16	7.5	1	8-10	(1-2-3-6-7-9)4
9GH8		23	7.5	2	2-3-6	4-7
"		23	7.5	2	1-9	4-8
9GV8		23	7.5	2	1-2	3-4
"		15	7.5	3	6-7-9	4-8
9JW8		25	7.5	2	1-9	4-8
"		24	7.5	2	2-3-6	4-7
9KC6		14	7.5	3	2-6-7-9	1-4
9KG6*		23	7.5	4	(1-8)(2-7)(3-6)10	5-9
9KX6		14	7.5	3	2(3-9)7-8	1-4
9KZ8		15	7.5	3	1-9	4-8
"		15	7.5	3	2-6-7	3-4
9LA6		15	7.5	3	2-7-8	1(3-9)4



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
11CA11	0	25	7.5	2	4-6	1-5
"	0	28	7.5	2	2-3	1-7
11CF11	8	28	7.5	2	3-5-6	4-7
"	0	15	7.5	1	3-4-5	1-6
"	5	15	7.5	1	3-7	6-10
"	6	15	7.5	1	2-3	1-5
11CH11	0	17	12.6	3	3-9	1-4
"	0	20	12.6	3	5-7	1-6
"	7	16	12.6	3	4-5-9	2-8
11CY7		12	12.6	1	1(2-3)	4-9
11DS5		25	12.6	2	6-7	4-8
11FY7	0	26	12.6	2	(1-7)5-6	2-3
"	5	17	12.6	3	3-5	7-10
"		15	12.6	1	2-3	1-4
11HM7		14	6.3	3	2-7-8 1(3-9)	(4-5)
11JE8		28	12.6	2	2-3	1-4
11KV8		16	12.6	3	7-8-9	4-6
11LQ8		12	12.6	1	2-3	1-4
11LT8		22	12.6	2	7-8-9	4-6
"		21	12.6	2	2-3	1-4
"		21	12.6	2	7-8-9	4-6
"		22	12.6	2	2-3-9	1-4
"		24	12.6	2	6	4-7
"		24	12.6	2	8	4-7
11LY6		26	7.5	2	2(3-9)7-8	1-4
11MS8		27	7.5	2	1-2	3-4
11R3		25	7.5	2	6-7-9	4-8
11Y9#		22	12.6	2	2-9	4-10
"		24	12.6	2	1-3-4	2-6
"		25	12.6	2	8-9-10	7-6
12A4		16	6.3	3	(2-7)9	1(4-5)
12AB5		25	12.6	3	(1-8)(3-6)9	5-7
12AC6		14	12.6	1	1-5-6	2-3-7
12AC10	3	26	12.6	2	1-5	4-6
"	0	26	12.6	2	5-7	1-6
12AD6	5	26	12.6	2	1-2	6-9
12AE6		16	12.6	1	1-5-6-7	2-3
"		35	12.6	1	5	2-3
"		35	12.6	1	6	2-3
12AE10	0	15	12.6	1	1-7	2-3
"	8	27	12.6	2	3-5-7	1-2
12AF3		27	12.6	2	3-5-6	4-7
12AF6		20	12.6	3	(2-9)	4-10
12AF11	0	16	12.6	1	1-5-6	2-3-7
"	0	28	12.6	2	3-4	7-10
"	5	26	12.6	2	6-8	5-10
"		26	12.6	2	2-3	1-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
10GV8		23	7.5	2	1-2	3-4
10HA6		15	7.5	3	6-7-9	4-8
10HF8		15	7.5	3	2(3-9)(6-8)	1-4
"		22	7.5	2	7-8-9	4-6
10JA5	0	24	7.5	2	2-3	1-4
10JT8		27	7.5	2	3(2-9)6	1-4
10JY8		16	7.5	1	2-3	1-4
"		21	7.5	2	7-8-9	4-6
"		24	7.5	2	2-3	1-4
"		25	7.5	2	7-8-9	4-6
10KR8		15	7.5	3	7-8-9	4-6
10KU8		15	7.5	3	2-3	1-4
"		27	7.5	1	2	1-4
10L14		22	7.5	1	7-8-9	1-4
10LB8		22	25	2	1-2	4-6
10LD6		25	7.5	2	2-3	3-4
10LE8		14	7.5	3	7-8-9	4-6
"		20	7.5	4	2(6-8)7	1-4
"		23	7.5	2	1-2-8-9	3-4
"		23	7.5	2	6-7-8-9	3-4
10LM8		22	7.5	2	2-3-6	4-7
10LW8		22	7.5	2	1-9	4-8
10LY8		27	7.5	2	2-3	1-4
10LZ8		23	7.5	2	7-8-9	4-6
10P18		25	7.5	2	2-3	1-4
10T10	0	20	7.5	3	7-8-9	4-6
"	7	29	50	3	(1-2)(7-8)9	3-5
"		16	7.5	3	3-5-6-7	1-2
10Z10	5	20	7.5	3	2-4-5	3-8
"	0	17	7.5	3	1-3-7	6-8
11AF9#		75	7.5	1	4-5-6-7	1-8
"		Good above	25.			
11AR11	0	22	12.6	2	1-3-4	2-6-7
"	8	28	12.6	2	8-9-10	2-6
11B8		22	12.6	2	2-3-4-5	1-6
"		22	12.6	2	2-3-4-5	6-9
11BQ11	0	25	12.6	2	3-6-7	2-4
"	7	27	12.6	2	1-9	4-8
11BT11	0	20	12.6	2	2-3-4-5	1-6
"	7	20	12.6	2	1-2-3-4	5-6
"	0	17	12.6	3	3-9	1-4
"	0	20	12.6	3	5-7	1-6
11C5	7	17	12.6	3	4-5-9	2-8
"		17	12.6	3	(2-5)6-7	1-3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12AG6		14	12.6	1	1-5-6-7	2-3
12AG7		15	12.6	3	4-6-8	5-7
12AJ6		35	12.6	1	5	2-3
"		28	12.6	1	6	2-3
12AJ7		14	12.6	1	1-7	2-3
"		28	12.6	2	8-9	3-5
12AL5		26	12.6	2	2-6-7	3-5
"		25	12.6	2	2	3-5
12AL8		25	12.6	2	7	1-3
"		29	12.6	2	1-8	4-9
"		20	12.6	3	2-6	4-7
12AL11	0	23	12.6	2	3-6-7	1-2-4
"	6	23	12.6	2	1-3-4	2-7
12AQ5		30	12.6	3	(1-7) 5-6	2-3
12AS5		13	12.6	1	(2-5) 6-7	1-3
12AT6		35	12.6	1	6	2-4
"		35	12.6	1	5	2-4
12AT7		28	12.6	2	1-7	2-4
"		23	6.3	2	1-2	3(4-5)
12AU6		23	6.3	2	6-7	(4-5) 8
"		22	12.6	2	1-5-6	2-3-7
12AU7		25	6.3	2	1-2	3(4-5)
"		25	6.3	2	6-7	(4-5) 8
12AV5		19	12.6	3	1-5-8	2-3
12AV6		35	12.6	1	6	2-4
"		35	12.6	1	5	2-4
12AV7		28	12.6	2	1-7	2-4
"		17	6.3	3	1-2	3(4-5)
12AW6		17	6.3	3	6-7	(4-5) 8
12AX3		32	12.6	2	1-5-6-7	2-3
12AX4	7	21	12.6	3	4	1-8
"		23	12.6	3	5	3-8
12AX7		14	6.3	1	1-2	3(4-5)
"		14	6.3	1	6-7	(4-5) 8
12AY3		20	12.6	2	(2-7)	4-9
12AY7		14	6.3	1	6-7	4-5-8
"		14	6.3	1	1-2	3-4-5
12AZ7		16	6.3	1	1-2	3(4-5)
"		16	6.3	1	6-7	(4-5) 8
12B4		23	6.3	2	(2-7) 9	1(4-5)
12BA6		23	12.6	2	1-5-6	3-7
12BA7		20	12.6	1	1-6-7-9	2-3-4
"		19	12.6	3	1-2	3-4-6-7-9
12BB14		22	12.6	2	(1-2) (6-7) 10	(3-8) 4
12BE3	0	15	12.6	3	4	1-7
12BE6		12	12.6	1	1-5-6-7	2-3

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12BP6		27	12.6	2	1-7	2-3
"		29	12.6	2	1-5	2-3
"		29	12.6	2	1-6	2-3
12BP11	0	14	12.6	1	3-5-6-7	1-2
"	7	20	12.6	3	2-4-5	3-8
12BH7		22	6.3	2	1-2	3(4-5)
"		22	6.3	2	6-7	(4-5) 8
12BL6		14	12.6	1	1-5-6	2-3-7
12BN6		100	12.6	1	2-4-6-7	1-3
"		Good above		40		
12BQ6		16	12.6	3	4-5-10	2-8
12BR7		24	6.3	2	1-2	3(4-5)
"		25	6.3	2	6	(4-5) 8
"		25	6.3	2	7	(4-5) 8
12BS3		17	12.6	3	(2-7)	4-9
12BT3		18	12.6	3	4	7-10
12BV7	0	15	6.3	3	2-7-8 1(3-9)	(4-5)
12BV11	0	22	12.6	2	2-3-4-7	1-5
"	7	22	12.6	2	1-4-5-9	2-8
12BW4		35	12.6	3	1	4-9
"		35	12.6	3	7	4-9
12BY3		20	12.6	3	(2-9)	4-10
12BY7		25	6.3	2	2-7-8 1(3-9)	(4-5)
12BZ6		22	12.6	2	1-5-6	2-3-7
12BZ7		21	6.3	3	6-7	9-8
"		20	6.3	3	1-2	3-9
12C5		17	12.6	3	(2-5) 6-7	1-3
12CA5		18	12.6	3	(2-5) 6-7	1-3
12CK3		15	12.6	3	(2-7)	4-9
12CL3		21	12.6	2	(2-7)	4-9
12CM6		23	12.6	3	1(3-6) 9	4-7
12CR6		20	12.6	1	2	1-3
"		25	12.6	2	5-6-7	1-3
12CS6		24	12.6	2	1-5-6-7	2-3
12CT3		24	12.6	2	(2-6)	4-9
12CT8		23	12.6	3	1-2	3-4
"		23	12.6	3	6-7-8	4-9
12CU5		17	12.6	3	(2-5) 6-7	1-3
12CU6		16	12.6	3	4-5-10	2-8
12D4		17	12.6	3	5	3-8
12DB5		13	12.6	3	3-6-9	2-4-7
12DE8		20	12.6	3	3	2-4
"		15	12.6	1	1-6-8	4-9
12DF5		40	6.3	3	6	8-9
"		40	6.3	3	1	3-9



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12NQ7		25	12.6	2	1-2	3-4
"		25	12.6	2	6-7	4-8
12NQ8		15	12.6	1	1-2	4-9
"		15	12.6	1	2-3	4-9
"		15	12.6	1	6-7	4-9
"		15	12.6	1	7-8	4-9
12FR8		13	12.6	1	3-6-7	5
"		13	12.6	1	1-9	2-5
"		30	12.6	1	8	2-5
12FV7		15	6.3	3	1-2	3(4-5)
"		15	6.3	3	6-7	(4-5)8
12FX5		21	12.6	2	(2-5)6-7	1-3
12FX8		15	12.6	1	2-3-9	5-7
"		15	12.6	1	6-8	5
12GA6		14	12.6	1	1-6-7	2-3
12GB3		25	12.6	2	4-5-10	2-8
12GB7		23	12.6	2	4-5-10	2-8
12GC6		15	12.6	3	(4-8)5-10	2-3
12GE5	0	15	12.6	3	2-3-7	1-4
12GJ5		16	12.6	3	(1-7)(2-6)8-10	3-4
12GN7		14	6.3	3	2-7-8 1(3-9)(4-5)	(4-5)
12GT5		17	12.6	3	(1-7)(2-6)9	3-4
12GV5	4	19	12.6	3	(2-7)9-10	(1-8)3
"					●Cap goes to top of tube.	
12GW6		17	12.6	3	4-5-10	2-8
12H4		26	6.3	2	(1-5)6	(3-4)7
12HB25		25	12.6	2	(1-2)(3-8)(6-7)10	4-9
"					●Cap goes to top of tube.	
"					*Must use magnoval adapter.	
12HE7	4	15	6.3	3	6	(3-5)8
"	7	15	6.3	3	3-5-10	2(6-8)
12HG7		14	6.3	3	2-7-8 1(3-9)(4-5)	(4-5)
12HL5		15	12.6	3	(1-2)7-9	3-4
12HL7		15	6.3	3	2(3-9)7-8	1(4-5)
12H08		22	12.6	2	1-2-3	4-7
"		22	12.6	2	6-8-9	4-7
12J5		24	12.6	2	3-5	2-8
12JB6		23	12.6	3	(1-7)(2-6)8-10	3-4
12JF5	5	26	12.6	2	(3-8)7-10	(2-9)4
"					●Cap goes to top of tube.	
12JM6	2	16	12.6	3	5-6-7	3-4
"					●Cap goes to top of tube.	
12JN6	5	15	12.6	3	(2-9)3-8-10	6-7
12JN8		14	12.6	3	1-2	3-4
"		14	12.6	3	6-7-9	4-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12DJ8		23	12.6	2	1-2	3-4
"		23	12.6	2	6-7	4-8
12DK6		20	12.6	2	1-5-6	2-3-7
12DK7		35	12.6	1	9	2-4
"		35	12.6	1	6	2-4
"		25	12.6	2	1-3-7-8	2-4
12DL8		65	12.6	2	9	4-8
"		65	12.6	2	1	4-8
"		25	12.6	3	6-7	2-4
12DM4		20	12.6	3	5	3-8
12DQ6		17	12.6	3	4-5-10	2-8
12DQ7		16	6.3	3	2-7-8	1-3-4-5-9
12DS7		35	12.6	1	1	4-8
"		35	12.6	1	9	4-8
"		13	12.6	1	3-6-7	4-8
12DT5		30	12.6	1	1-9	3-4-6-7
12DT7		13	6.3	1	1-2	3(4-5)
"		13	6.3	1	6-7	(4-5)8
12DT8		22	12.6	2	6-7	4-8
"		22	12.6	2	1-2	3-4
12DV7		15	6.3	1	6-7	4-5-8
"		55	6.3	1	2	1-4-5
"		55	6.3	1	3	1-4-5
12DV8		25	12.6	2	3-6-7	2-5
"		63	12.6	2	9	5-8
"		56	12.6	2	1	5-8
12DW4		23	12.6	2	(2-7)	4-9
12DW7		14	6.3	1	2-6-7	8(4-5)
"		14	6.3	1	1-2-7	3(4-5)
12DZ6		14	12.6	3	1-5-6	2-3-7
12DZ7		21	12.6	3	4-5-6	2-8
"		21	12.6	3	1-3-4	2-8
12DZ8		14	12.6	1	1-9	4-8
"		18	12.6	3	3-6-7	2-4
12E13		19	6.3	3	3-4-5	1-7-8
12EA6		15	12.6	3	1-5-6	2-3-7
12ED5		16	12.6	3	2-5-6-7	1-3
12EK6		15	12.6	1	1-5-6	2-3-7
12EN6		25	12.6	2	3-4-5	2-8
12EQ7		25	12.6	2	1-2-6-7	3-4
"		15	12.6	1	2-8	3-4
12F8		35	12.6	1	1	4-7
"		35	12.6	1	6	4-7
"		16	12.6	1	2-3-8	4-7-9
12FM6		25	12.6	1	5	2-4
"		25	12.6	1	6	2-4
"		13	12.6	1	1-7	2-4



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
12JQ6		18	12.6	3	1 (2-3)(7-8)	4-9
12JS6●	3	18	12.6	1	6	4-9
"		17	12.6	3	(1-6)7-8	4-5
12JT6		17	12.6	2	●Cap goes to top of tube.	3-4
12JZ6	0	15	12.6	3	(1-7)2-6-9	1-9
"	4	25	12.6	3	4(6-7)8	2-5
12K5		14	12.6	1	1-6	1-3
12KL8		20	12.6	1	2(5-6)7	3-4
"		14	12.6	1	8	1-3-4
"		14	12.6	1	2-6-7	1-3-4
12L6		18	12.6	3	3-4-5	2-8
12MD8		24	12.6	2	1-9	4-7
"		24	12.6	2	2-8	4-7
"		24	12.6	2	3-6	4-7
12MX8		18	12.6	3	2-6-7	3-4
12RK19		13	12.6	1	8-9	1-4
12RLJ3		16	12.6	3	(2-9)	4-10
"		17	6.3	3	1-2	3(4-5)8
"		17	6.3	3	6-7	(4-5)8
12SA7		42	12.6	2	3-8	2-6
"		28	12.6	2	4-5	2-6
12SF5		15	12.6	1	3-5	2-7
12SJ7		15	12.6	1	3-4-6-8	2-5
12SK7		29	12.6	3	3-4-6-8	2-5
12SL7		30	12.6	3	4-5	6-7
"		30	12.6	3	1-2	3-7
12SN7		25	12.6	2	1-2	3-7
"		25	12.6	2	4-5	6-7
12SQ7		15	12.6	1	2-6	3-8
"		28	12.6	1	4	3-8
"		28	12.6	1	5	3-8
12T10	0	18	12.6	3	3-5-6-7	1-2
12W6	7	18	12.6	3	2-4-5	3-8
12X4		23	12.6	3	3-4-5	2-8
"		32	12.6	3	1	3-7
"		32	12.6	3	6	3-7
13CM5		15	12.6	3	(1-4)5-10	2(3-8)
13CW4		12	12.6	1	2-4	5-8
13DE7		25	12.6	2	1(2-3)	4-9
"		32	12.6	2	6-7	4-8
13DR7		25	12.6	3	6-7	4-8
"		17	12.6	3	1-2-3	4-9
13EM7		15	12.6	3	1-2	3-7
"		14	12.6	1	4-5	6-7
13FD7		13	12.6	1	1(2-3)	4-9
"		13	12.6	1	6-7	4-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
13PM7	0	14	12.6	3	(3-8)5	1-7
13QH5●	7	13	12.6	1	4-5	3-6
13QP7		14	12.6	3	(1-2)(6-7)10	(3-8)4
"		17	12.6	3	2-6	3-4
13J10	5	15	12.6	1	8-9	1-4
"	0	16	12.6	3	1-3-7	6-8
"		75	12.6	1	4-5-6-7	1-8
13JZ8	0	Good above	25.			
"	4	25	12.6	2	4(6-7)8	1-9
13V10	0	32	12.6	2	1-6	2-3
"	7	25	12.6	2	3-5-6-7	1-2
"		25	12.6	2	2-4-5	3-8
13Z10	5	16	12.6	3	1-3-7	6-8
"	0	75	12.6	1	4-5-6-7	1-8
14BL11	0	25	12.6	2	2-9	1-4
"	7	23	12.6	2	5-7	1-6
"	0	21	12.6	2	4-5-9	2-8
14DQ11	0	20	12.6	2	2-3-4-5	1-6
"	7	20	12.6	2	1-2-3-4	5-6
14BR11	3	22	12.6	2	1-5-6	4-7
"	0	22	12.6	2	6-8	1-5
"	7	22	12.6	2	3-4	1-8
14GT8		13	12.6	1	2	3-4
"		13	12.6	1	6	1-4
"		13	12.6	1	8-9	4-7
14GW8		14	12.6	1	1-9	2-4
"		19	12.6	3	3-6-8	4-7
14JG8		13	12.6	1	2	3-4
"		13	12.6	1	6	1-4
14W7		25	12.6	2	8-9	4-7
15AF11	0	24	12.6	2	2-3-6	1(4-7)5
"	0	24	12.6	2	3-4	7-10
"	5	24	12.6	2	6-8	5-10
15BD11	0	18	12.6	3	2-3-7	1-4
"	0	25	12.6	2	3-4	1-7
"	5	22	12.6	2	6-8	1-5
15CW5		24	12.6	2	2-3-7	1-6
15DQ8		21	12.6	2	(1-2)(6-9)(7-8)	3-4
"		25	12.6	2	1-2	3-4
"		15	12.6	1	6-8-9	4-7
15EA7		16	12.6	3	1-2	3-8
"		15	12.6	1	4-5	6-8
15EW7		15	12.6	3	1(2-3)	5-9
"		25	12.6	3	6-7	5-8
15FM7	0	15	12.6	3	(3-8)5	7-10
"	7	14	12.6	1	4-5	3-6

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
15FY7	0	15	12.6	3	3-5	7-10
"	5	13	12.6	1	2-3	1-4
15HA6		15	12.6	3	2(3-9)(6-8)	1-4
15HB6		15	12.6	3	2(6-8)	1-5
"		18	12.6	1	(3-9)7	1-5
15KY8		18	12.6	3	2-6-7	3-4
"		13	12.6	1	8-9	1-4
15LE8		23	12.6	2	1-2-8-9	3-4
"		23	12.6	2	6-7-8-9	3-4
15MF8		15	12.6	1	2	3-4
"		15	12.6	1	6	1-4
15MX8		18	12.6	3	2-6-7	3-4
"		23	12.6	1	8-9	1-4
16A8		23	12.6	2	3-6-7	2-5
"		25	12.6	2	1-9	5-8
16AQ3		17	12.6	3	(1-2-3-6-7-8-9)	4-10
16AK9	8	25	7.5	2	3-4	1-2
"	8	27	7.5	2	5-6	1-2
"	0	30	7.5	2	2-3	6-7
16BQ11	0	25	12.6	2	2-3-4-5	1-6
"	7	25	12.6	2	1-2-3-4	5-6
16BX11	0	22	12.6	2	5-6	1-4
"	0	22	12.6	2	7-8	1-9
"	4	16	12.6	3	2-6-7	1-3
16CB28●	4	25	12.6	3	(2-7)9-10	(1-8)5
"		30	12.6	2	●Cap goes to top of tube.	
16GK6	4	16	12.6	3	2-7-8	1(3-9)4
16GY5●	0	16	12.6	3	(2-7)9-10	(1-8)5
16HB5●	4	15	12.6	3	2-3-7	4-10
16KA6●	0	22	12.6	3	7-9-10	1(2-8)5
16KH8		18	12.6	3	1-2	4-7
"		18	12.6	3	2-3-9	4-7
"		18	12.6	3	6-8-9	4-7
16LD6	0	20	12.6	4	2(6-8)7	1-4
16LU8	4	16	12.6	3	4(6-7)8	1-9
"	0	12	12.6	1	1-6	2-5
16MY8	0	16	12.6	3	4(6-7)8	1-9
"	4	12	12.6	1	1-6	2-5
16Y9#		24	12.6	2	1-3-4	2-6
" #		25	12.6	2	8-9-10	6-7
17A8		23	12.6	2	1-9	4-8
"		25	12.6	2	2-3-6	4-7
17AB10	0	100	12.6	1	4-5-6-7	1-8
"		Good above		35.		
"	6	15	12.6	3	2-4-8	7-9
17AV5		19	12.6	3	1-5-8	2-3
17AX3	7	21	12.6	3	4	1-8

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
17AX4		23	12.6	3	5	3-8
17AY3		20	12.6	3	(2-7)	4-9
17BB14●		22	12.6	2	(1-2)(6-7)10	(3-8)4
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
17BE3	0	15	12.6	3	4	1-7
17BF11	0	14	12.6	1	3-5-6-7	1-2
"	7	20	12.6	3	2-4-5	3-8
17BH3		20	12.6	3	(2-7)	4-9
17BQ6		16	12.6	3	4-5-10	2-8
17BR3		22	12.6	3	(2-9)	4-10
17BS3		17	12.6	3	(2-7)	4-9
17BW3	7	35	12.6	3	4	8
17BZ3	0	17	12.6	3	4	1-7
17C5		17	12.6	3	(2-5)6-7	1-3
17C9		23	12.6	2	1-7-8	4-6
"		23	12.6	2	1-3	2-4-10
17CA5		18	12.6	3	(2-5)6-7	1-3
17CK3		15	12.6	3	(2-7)	4-9
17CL3		21	12.6	2	(2-7)	4-9
17CT3		24	12.6	2	(2-6)	4-9
17CU5		17	12.6	3	(2-5)6-7	1-3
17D4		20	12.6	3	5	3-7
17DE4		20	12.6	3	5	3-7
17DM4		20	12.6	3	5	3-8
17DQ6		17	12.6	3	4-5-10	2-8
17DW4		23	12.6	2	(2-7)	4-9
17EW8		25	12.6	2	1-2	3-4
"		25	12.6	2	6-7	4-8
17GJ5●		16	12.6	3	(1-7)(2-6)8-10	3-4
17GT5		17	12.6	3	(1-7)(2-6)9	3-4
17GV5●	4	19	12.6	3	(2-7)9-10	(1-8)
17GW6		17	12.6	3	4-5-10	2-8
17HB25●		25	12.6	2	(1-2)(3-8)(6-7)10	4-9
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
17JB6		23	12.6	3	(1-7)(2-6)8-10	3-4
17JF6●		17	12.6	3	3(1-7)(2-6)8-10	3-5
"		●Cap goes to top of tube.				
17JG6		15	12.6	3	(1-7)2-6-9	3-4
17JM6	2	15	12.6	3	5-6-7	3-4
17JN6	5	15	12.6	3	(2-9)3-8-10	6-7
17JQ6		15	12.6	1	1(2-3)6(7-8)	4-9
17JR6		24	12.6	2	(1-7)2-6-9	3-4
17JT6		17	12.6	3	(1-7)2-6-9	3-4



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
17JZ6	0	15	12.6	3	4(6-7)8	1-9
"	4	25	12.6	3	1-6	2-5
17JZ8	0	17	12.6	3	4(6-7)	9-10
"	4	14	12.6	1	1-6	2-3
17KV6		15	12.6	3	1(2-7)9	3-4
17L6		22	19.0	3	3-4-5	2-8
17LD8		25	12.6	2	2-6-7	3-4
"		32	12.6	3	8-9	1-4
17RHH2		25	12.6	2	1-2	3-4
"		25	12.6	2	6-7	4-8
17RK19		25	12.6	2	(2-9)	4-10
17W6		23	12.6	3	3-4-5	2-8
17X10	0	100	12.6	1	4-5-6-7	1-8
"	6	Good above	35.			
17Y9#		15	12.6	3	2-4-8	7-9
"		24	12.6	2	1-3-4	2-6-7
"		36	12.6	2	8-9-10	2-6
17Z3		#Must use decal adapter.				
18AJ10	2	17	12.6	3	1-2-3-6-7-8-9	4-10
"	6	25	12.6	2	5-8-9	1-4
"		25	12.6	2	1-3-4	2-5
18DZ8		14	12.6	1	1-9	4-8
"		18	12.6	3	3-6-7	2-4
18FW6		25	12.6	2	1-2-5-6	4-7
18FX6		25	12.6	2	1-6-7	2-3
18FY6		31	12.6	2	5-6-7	2-3
"		14	12.6	1	1-7	2-4
"		36	12.6	1	5	2-4
"		36	12.6	1	6	2-4
18GB5*		14	12.6	3	(1-2)(6-7)10	(3-8)4
18GV8		26	12.6	2	1-2	3-4
"		27	12.6	2	6-7-9	4-8
18RAL1		25	12.6	2	1(2-3)	4-9
"		30	12.6	2	6-7	4-8
18GD6		25	12.6	2	1-2-5-6	4-7
19A3		26	7.5	2	5	6-7
19AU4		25	12.6	2	5	3-7
19C8		15	12.6	1	2	3-4
"		15	12.6	1	1	4-7
"		15	12.6	1	6	4-7
"		15	12.6	1	9	4-7
19CG3	2	15	12.6	3	(6-10)	1-9
19CL8		14	12.6	3	1-2	3-4
"		13	12.6	3	6-7-9	4-8
19DE3*	7	26	12.6	2	4	6-10

●Cap goes to top of tube.

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
19DE7		25	12.6	2	1(2-3)	4-9
"		32	12.6	2	6-7	4-8
19DK3		16	12.6	3	(2-7)	4-10
19DQ3		16	12.6	3	(6-10)	1-9
19EA8	2	15	12.6	3	2-3-6	4-7
"		14	12.6	3	1-9	4-8
19FL8		28	12.6	2	1-2-6-9	3-4
"		32	12.6	1	7	3-4
"		32	12.6	1	8	3-4
19FX5		23	12.6	2	(2-5)6-7	1-3
19GQ7		20	12.6	3	2	1-4
"		20	12.6	3	6	4-7
"		20	12.6	3	8	4-9
19GV8		23	12.6	2	1-2	3-4
"		15	12.6	3	6-7-9	4-8
19HR6		23	12.6	2	1-2-5-6	3-7
19HS6		11	12.6	1	1	3-7
19HV8		14	12.6	1	2-5-6	3-7
"		14	12.6	1	1-2	3-4
19J6		13	12.6	1	6-7-9	4-8
"		22	12.6	2	1-6	3-7
"		22	12.6	2	2-5	3-7
19JN8		14	12.6	3	1-2	3-4
"		14	12.6	3	6-7-9	4-8
19KF6*		20	12.6	3	(1-7)2-6-9	3-4
19KG8		14	12.6	1	1-2	3-4
"		14	12.6	1	6-7-9	4-8
19MR9		25	12.6	2	1-5-6	2-3-7
19Q9		11	12.6	3	1-2-3	5-10
"		12	12.6	3	8-9	5-7
19U3		19	25	3	9	3-4
19T8		15	12.6	1	2	3-4
"		15	12.6	1	6	4-7
"		15	12.6	1	1	4-7
"		25	12.6	3	8-9	4-7
19W3		19	25	3	9	3-4
19X8		24	12.6	2	2-3	4-6
"		24	12.6	2	7-8-9	1-4-6
19Y3		17	12.6	3	(2-7-9)	3-4
20AQ3		17	12.6	3	(1-2-3-6-7-8-9)	4-10
20AQ8		22	12.6	2	6-7	4-8
"		22	12.6	2	1-2	3-4
20D4		22	6.3	2	1-2-6	3-4
"		30	6.3	3	8-9	4
20EQ7		25	12.6	2	1-2-6-7	3-4
"		15	12.6	1	2-8	3-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
20EW7		15	12.6	3	1 (2-3)	5-9
"		25	12.6	3	6-7	5-8
20EZ7		15	12.6	1	5-6	3-4
"		15	12.6	1	7-8	3-9
20LF6	2	15	12.6	3	5-6-7-10	1-4
"					●Cap goes to top of tube.	
21EX6		16	12.6	3	5-8-10	3-7
21GY5	4	16	12.6	3	(2-7)9-10	(1-8)5
21HB5	0	20	12.6	4	2-3-5-7	4-10
21HJ5	0	15	12.6	3	3-4(5-9)	1-2
21JS6	3	16	12.6	3	(1-6)7-8-10	4-5
"					●Cap goes to top of tube.	
21JV6	7	16	12.6	3	1-5	4-8-9
21JZ6	3	15	12.6	3	6-7-8-10	4-5
21KA6	4	15	12.6	3	7-9-10	1(2-8)5
"					●Cap goes to top of tube.	
21KQ6	6	20	12.6	2	(1-8)(3-6)10	4-9
21LG6		25	12.6	2	2(4-9)10	3-5
21LR8		23	12.6	2	2-6-7	3-4
"		26	12.6	2	8-9	1-4
21LJ8	0	17	12.6	3	4(6-7)8	1-9
"	4	12	12.6	1	1-6	2-5
21MY8	0	16	12.6	3	4(6-7)8	1-9
"	4	12	12.6	1	1-6	2-5
22BH3		20	12.6	3	(2-7)	1-7
22BW3	0	20	12.6	3	4	3-7
22DE4		20	12.6	3	5	
22JF6		15	12.6	3	(1-7)(2-6)8-10	3-4
22JG6		15	12.6	3	(1-7)2-6-9	3-4
22JR6		24	12.6	2	(1-7)2-6-9	3-4
22JU6		16	12.6	3	(1-7)(2-6)8-10	3-4
22KM6		16	12.6	3	(1-7)(2-6)8-10	3-4
22KV6		15	25.0	3	1(2-7)9	3-4
23HB3		20	25.0	3	(2-7)	4-9
23JS6	3	14	25.0	3	(1-6)7-8	4-5
23MB6	5	29	25.0	2	(2-9)(3-8)10	4-7
"					●Cap goes to top of tube.	
23Z9	0	27	5.0	2	2-3	6-7
CAUTION: Remove tube before resetting controls.		27	25.0	2	5-8-9	7-10
"	7	29	25.0	2	4-5	1-6
24AX4	0	25	25.0	3	5	3-8
24BF11	7	14	25.0	1	3-5-6-7	1-2
"	0	20	25.0	3	2-4-5	3-8
24GA7	0	16	25.0	3	(2-3)4-7	5-10
"	7	20	25.0	3	5	2-6

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
24JH6		18	25.0	3	(1-7)(2-6)10	3-4-8
24JZ8	0	15	25.0	3	(6-7)4-8	1-9
"	4	25	25.0	3	1-6	2-5
24LQ6		15	25.0	3	(1-7)(2-6)10	3-4
24LZ6		26	25.0	2	(1-7)(2-6)9	3-4
"					●Cap goes to top of tube.	
24AV5		19	25.0	3	1-5-8	2-3
24AX4		23	25.0	3	5	3-8
24BY4		22	25.0	2	(1-2)(6-7)10	(3-8)4
"					●Cap goes to top of tube.	
"					*Must use magnoval adapter.	
25AQ6		16	25.0	3	4-5-10	2-8
25C5		17	25.0	3	(2-5)6-7	1-3
25CA5		18	25.0	3	(2-5)6-7	1-3
25CD6		15	25.0	3	5-8-10	2-3
25CG3	2	17	25.0	3	(6-10)	1-9
25CK3		17	25.0	3	(2-7)	5-9
25CM3		15	25.0	3	(2-7)	4-9
25CT3		24	25.0	2	(2-6)	4-9
25CU6		16	25.0	3	4-5-10	2-8
25DK3		16	25.0	3	(2-7)	4-10
25DL3		25	25.0	2	(2-7)	4-10
"					●Cap goes to top of tube.	
25DN6		15	25.0	3	5-8-10	2-3
25DZ8		14	25.0	1	1-9	4-8
"		18	25.0	3	3-6-7	2-4
25E5		15	25.0	3	(1-4)5-10	(3-8)7
25EC6		24	25.0	3	4-8-10	2-3
25EH5		17	25.0	3	2-5-6-7	1-3
25F5		24	25.0	2	(2-5)6-7	1-4
25GB6		20	25.0	3	4-5-10	2-8
25HX5*		25	25.0	2	(1-7)6-9	(2-3)4
"					*Must use magnoval adapter.	
25JQ6		15	25.0	1	1(2-3)6(7-8)	4-9
25JZ8	0	19	25.0	3	4(6-7)8	1-9
"	4	31	25.0	2	1-6	2-5
25L6		17	25.0	3	3-4-5	2-8
25MP20		25	25.0	2	1-5-6-7	2-3
25RK19		25	25.0	2	(2-9)	4-10
25W4		20	25.0	3	5	3-7
25W6		23	25.0	3	3-4-5	2-8
26AQ8		22	25.0	2	1-2	3-4
26DQ5		17	25.0	3	(1-5)(4-7)10	2(3-6)
26E6		22	25.0	3	3-4-5	2-8
26HU5		15	25.0	2	(1-5)3-10	(2-6)7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
26HV5	0	15	25.0	3	2-3-7	4-10
26LW6		16	25.0	3	1-3-5-10	(2-6)7
26LX6●	3	17	25.0	3	(1-6)7-8	4-5
26Z5		●Cap goes to top of tube.				
"		25	12.6	3	1	3(4-5)
"		25	12.6	3	6	(4-5)8
27GB5●		14	25.0	3	(1-2)(6-7)10	(3-8)4
27KG6*		20	25.0	4	(1-8)(2-7)(3-6)10	4-9
27LF6●	2	15	25.0	3	5-6-7-10	1-4
"		●Cap goes to top of tube.				
28GB5●		14	25.0	3	(1-2)(6-7)10	(3-8)4
28HA6		15	25.0	3	2(3-9)(6-8)	1-4
28HE6		15	25.0	3	2(3-9)(6-8)	1-4
29GK6*		30	25.0	2	2-7-8	1(3-9)4
29KQ6●		25	25.0	2	(1-8)(3-6)10	4-9
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
29LE6●		25	25.0	2	(1-8)(2-7)(3-6)	4-9
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
30A5		15	25.0	3	(2-5)6-7	1-3
30AE3		17	25.0	3	(1-2-3-6-7-8-9)	4-10
30AG11	5	26	32.0	2	2	3-4
"	0	26	32.0	2	3	2-10
"	0	23	32.0	2	7-8	9-10
"	0	23	32.0	2	5-6	4-10
30C18		15	6.3	1	1-9	4(6-8)
"		13	6.3	1	2-3-7	4(6-8)
30HJ5	0	13	25.0	3	3-4(5-9)7	1-2
30JZ6●	3	15	32.0	2	6-7-8-10	4-5
"		●Cap goes to top of tube.				
30KD6●	2	20	25.0	2	5-7-10	3-4
30KG6*		20	25.0	4	(1-8)(2-7)(3-6)10	4-9
30LW6		16	32	3	1-3-5-10	(2-6)7
30MB6●	5	29	32.0	2	(2-9)(3-8)10	4-7
"		●Cap goes to top of tube.				
30MP23		25	25.0	2	(2-5)6-7	1-3
30MP27		25	25.0	2	(2-5)6-7	1-3
30PL12		27	12.6	2	1-9	5-8
"		27	12.6	2	3-6-7	2-5
31AL10	0	25	12.6	2	4-5-8	6-7
"	0	30	12.6	2	2-3	6-7
"	6	26	12.6	2	2-4	3-10
31JS6●	3	14	32.0	3	(1-6)7-8	4-5
31LQ6●		15	32.0	3	(1-7)(2-6)10	3-4
"		●Cap goes to top of tube.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
31LR8		24	25.0	2	2-6-7	3-4
"		26	25.0	2	8-9	1-4
31LZ6●		26	25.0	2	(1-7)(2-6)9	3-4
"		●Cap goes to top of tube.				
32A8		27	32.0	3	1-9	4-8
"		27	32.0	2	3-6-7	2-4
32ET5		19	32.0	3	(2-5)6-7	1-4
32GA7	0	16	32.0	3	(2-3)4-7	5-10
"	7	20	32.0	3	5	2-6
32GD5		24	32.0	3	(2-5)6-7	1-4
32HQ7	7	27	25.0	2	3-5-10	1-2
"	0	26	25.0	2	2	4-7
33GT7	0	18	12.6	3	2	(1-10)4
"	7	16	12.6	3	(3-5)4-10	2(6-8)
33GY7	0	18	12.6	3	2	(1-10)4
"	7	26	12.6	2	(3-4)10	2(6-8)
33HE7	4	15	12.6	3	6	(3-5)8
"	7	15	12.6	3	3-5-10	2(6-8)
33JR6		26	32.0	2	(1-7)2-6-9	3-4
33JV6	7	16	32.0	3	1-5	4-8-9
34CD3	0	14	32.0	3	4	1-7
34CF3	0	14	32.0	3	4	1-7
34CM3		15	32.0	3	(2-7)	4-9
34DK3		16	32	3	(2-7)	4-10
34GD5		20	32.0	3	(2-5)6-7	1-3
34R3		20	32.0	4	(2-9)	4-10
35C5		17	32.0	3	(2-5)6-7	1-3
35DQ6		15	32.0	3	5-8-10	2-3
35DZ8		15	32.0	1	1-9	4-8
"		17	32.0	3	3-6-7	2-4
35EH5		17	32.0	3	2-5-6-7	1-3
35GL6		18	12.6	3	2-5-7	1(3-4)
35L6		17	32.0	3	3-4-5	2-8
35LR6●	3	15	32.0	3	(1-6)7-8	4-5
35W4		18	12.6	3	5	(3-4)7
35Y4		18	32.0	3	2	1-4-7
35Z4		17	32.0	3	5	2-8
35Z5		18	32.0	3	5	7-8
36AM3		20	32.0	4	5	3-7
36KD6		20	32.0	2	5-7-10	3-4
36MC6●		27	32.0	2	(1-7)(2-6)10	3-4
"		●Cap goes to top of tube.				
38A3		18	32.0	3	(1-6-9)	3-4



TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
38HE7	4	15	12.6	3	6	(3-5)8
"	7	15	12.6	3	3-5-10	2(6-8)
38HK7	4	19	12.6	3	6	(3-5)8
"	7	19	12.6	3	3-5-10	2(6-8)
40FR5		20	32.0	3	(2-5)6-7	1-4
40KD6	2	20	32.0	2	5-7-10	3-4
40KG6*		20	32.0	4	(1-8)(2-7)(3-6)10	4-9
42EC4*		18	32.0	3	(2-7-8)	4-10
42KN6	2	13	12.6	3	5-6-7-10	4-9
45B5		16	50.0	3	(1-2)(7-8)9	3-5
45Z5		18	50.0	3	5	(2-3)8
50B5		19	50.0	3	1-5-6-7	2-3
50BM8		27	50.0	2	1-9	4-8
"		24	50.0	2	3-6-7	2-4
50C5		17	50.0	3	(2-5)6-7	1-3
50CA5		18	50.0	3	(2-5)6-7	1-3
50DC4		19	25.0	3	5	3-6-7
50EH5		14	50.0	3	(2-5)6-7	1-3
50FE5		18	50.0	3	3-4-5	1-8
50FK5		17	50.0	3	(2-5)6-7	1-3
50FY8		16	50.0	3	3-6-7	2-4
"		15	50.0	1	1-9	4-8
50GY7	0	19	25.0	3		(1-10)4
"	7	20	25.0	2	(3-4)10	2(6-8)
50HC6		15	25.0	3	2-5-7	1(3-4)
50HK6		17	25.0	3	2-5-7	1(3-4)
50HN5		15	50.0	3	(1-2)7-9	3-4
50JY6		16	50.0	3	(1-4)5-6-10	2-8
50L6		17	50.0	3	3-4-5	2-8
50Y7		21	50.0	3	5	6-7-8
"		21	50.0	3	3	4-6-7
53HK7	4	19	25.0	3	6	(3-5)8
"	7	19	25.0	3	3-5-10	2(6-8)
58HE7	4	15	25.0	3	6	(3-5)8
"	7	15	25.0	3	3-5-10	2(6-8)
60FX5		21	50.0	2	(2-5)6-7	1-3
60HL5		15	50.0	3	(1-2)7-9	3-4
117L7/M7		20	110.0	3	6	1-2
"		24	110.0	3	3-4-5	2-8
396A		23	6.3	2	3-4	1-2
"		23	6.3	2	6-7	1-8
403B		26	6.3	2	1-5-6	(2-7)3
417		15	6.3	3	1(4-5-7-8)	3-6
807		20	6.3	4	2-3-10	1-4
866		26	2.5	3	10	4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
TJ880		25	6.3	2	2(3-9)7-8	(1-6)5
1280		27	12.6	3	2-3-6	1-4-7
1611		25	6.3	2	3-4-5	2-8
1612		26	6.3	3	3-4-10	7
1628		30	12.6	2	3-5	2-8
1629		36	12.6	2	3-5	2-8
"		0	12.6	4	4	2
"		Eye open.				
1629		0	12.6	4	3-4	2
"		Eye closed.				
2050		20	6.3	4	3-5-6	2-8
5610		22	6.3	2	(1-5)6	2-3
5641		18	6.3	3	2-4-8	3-5
5642		100	0.75	1	10	1
5654		27	6.3	2	1-5-6	(2-7)3
5663		18	6.3	3	1-5-7	2-3
5670		25	6.3	3	6-7	1-8
"		25	6.3	2	3-4	1-2
5687		26	6.3	3	1-2	3(4-5)
"		26	6.3	3	7-9	(4-5)6
5692		29	6.3	2	4-5	6-7
"		29	6.3	2	1-2	3-7
5696		22	6.3	4	1(5-7)6	2-3
5725		25	6.3	2	1-5-6-7	2-3
5749		23	6.3	2	1-5-6	3-7
5751		30	6.3	2	1-2	3(4-5)
"		30	6.3	2	6-7	(4-5)8
CK5755		35	6.3	2	1-3	2-9
"		33	6.3	2	6-8	7-9
5763		20	6.3	3	1-3-6-8-9	4-7
5823		35	0.0	4	1	3-7
5842		15	6.3	3	1(4-5-7-8)	3-6
5879		15	6.3	1	1-7-8-9	3-4
5881		21	6.3	3	3-4-5	2-8
5915		26	6.3	2	1-5-6-7	2-3
5987		27	6.3	2	(2-4-8)1	3-5
6005		22	6.3	3	(1-7)5-6	2-4
6084		26	6.3	3	1-6-9	3-4
6085		14	6.3	1	1-2	3(4-5)
"		14	6.3	1	6-7	(4-5)8
6146		25	6.3	2	3-5-10	(1-4-6)2
6189		25	6.3	2	6-7	4-5-8
"		25	6.3	2	1-2	3-4-5

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
7695		16	50.0	4	1-6-9	4-7
7751		24	6.3	2	(1-4)3-5	4-7
7788		24	6.3	2	2(6-9)7-8	2-8
7868		20	6.3	4	(1-7)(2-6)9	(1-3)4
7898		23	6.3	2	1-2	3-5
		23	6.3	2	6-7	3-9
7984	4	16	12.6	3	1-2(7-8-9)	8-9
7994		24	6.3	2	(2-4-5-7)3	3(6-10)
8032		54	12.6	2	3-5-10	(1-4-6)2
8068		20	6.3	3	5-8-10	2-3
8070		26	6.3	2	2-7	(1-8)3
8071		24	6.3	2	(1-8)(2-7)	3(4-5)
8102		15	12.6	3	6-7-9	4-8
		15	12.6	3	1-3	2-4
8106		15	12.6	3	1(3-8)7	(2-6-9)4
8156		19	12.6	3	1-2(7-8-9)	3(6-10)
8185		23	6.3	2	(2-4-5-7)3	1-6
8186		23	25.0	2	(2-4-5-7)3	1-6
8210		26	6.3	2	5-7-10	(1-2)3(4-8)
8254		23	6.3	2	8-10	(1-5)3
8278*		18	6.3	3	(1-8)(3-7)9	(2-6)4
8319		26	6.3	2	2-7	(1-8)3
8552		22	12.6	3	3-5	1-2-4-6
8908		25	6.3	2	(1-5)(2-6)3-10	4-7
9002		26	6.3	2	(1-5)6	(2-7)3
9003		30	6.3	2	1-5-6	(2-7)3
9006		19	6.3	1	(1-5)	(2-7)3
FOREIGN						
DF33		16	1.4	1	3-4-10	2
DF92		37	1.4	2	2-3-6	1-5
DF904		35	1.4	2	2-3-6	1-5
DL91		30	1.4	2	2-3-4-6	1-5
DL96		13	1.4	1	2-3-6	1-7
DY87		60	1.4	4	10	1-3-4-6-7-9
E55L*		17	6.3	3	1-3-8	2-4-6-7-9
*Must use magnoval adapter.						
E80CC		14	6.3	1	1-2	3(4-5)
E80F		14	6.3	1	6-7	(4-5)8
E81L		26	6.3	3	1-6-9	3-4
E83F		25	6.3	2	2-7-8-9	3-4
E84L		25	6.3	2	1-2-6	3-4
		19	6.3	3	1-2-7-9	3-4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
6203		30	6.3	3	1	4-7
"		30	6.3	3	9	4-7
6211		22	6.3	2	1-2	3(4-5)
"		22	6.3	2	6-7	(4-5)8
6265		25	6.3	2	1-5-6	2-3-7
6267		13	6.3	1	1-6-9	3-4-8
CK6293		28	6.3	2	3-5	(1-4-6)2
6360		21	6.3	2	3-7-8	2-9
"		21	6.3	2	1-6-7	2-9
6463		18	6.3	3	1-3	2(4-5)
"		18	6.3	3	6-8	(4-5)7
6550		19	6.3	3	3-4-5	1-7-8
PL6574		32	6.3	2	3-5-6	1-8
6660		24	6.3	2	1-5-6	3-7
6662		26	6.3	2	1-5-6	2-3-7
6686		25	6.3	2	2-7-8-9	3-4
6688		22	6.3	2	2-7-8-9	1-3-4
6689		25	6.3	2	1-2-6	3-4
6829		25	6.3	2	1-2	3(4-5)
"		25	6.3	2	6-7	(4-5)8
6883		19	12.6	3	3-5-10	1-2-4-6
6973		24	6.3	3	1-3-6-8-9	1-2-4-7
7025		14	6.3	1	1-2	3(4-5)
"		14	6.3	1	6-7	(4-5)8
7027		20	6.3	3	(1-4)3(5-6)	2-8
7054		15	12.6	3	2-7-8	1(3-9)4
7119		14	6.3	3	1-2	3(4-5)
"		14	6.3	3	7-9	(4-5)6
7189		16	6.3	3	1-2-6-7-8-9	3-4
7199		14	6.3	1	2-3-7	4-6
"		14	6.3	1	1-9	4-8
7247		15	6.3	1	1-2	3(4-5)
7308		15	6.3	1	6-7	(4-5)8
"		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
7355		20	6.3	3	3-6-9	2-5
7408		26	6.3	3	3-4-5	7-8
7543		13	6.3	1	1-2-5-6	3-7
7551		20	12.6	3	2(3-8)6	(1-9)4
7558		20	6.3	3	2(3-8)6	(1-9)4
7576		24	6.3	2	(2-4-5-7)3	1-6
7586		19	12.6	2	2-4	5-8
7591		15	6.3	3	3(4-8)6	2-5
7643		26	6.3	2	1-9	4-8
"		25	6.3	2	2-3-6	4-7

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
EPL200#		24	6.3	2	1-3-4	2-6
"		#Must use decal adapter.				
"		25	6.3	2	8-9-10	6-7
EL42		#Must use decal adapter.				
EL500#		25	6.3	2	2-7-9	3-4
"		16	6.3	1	8-10 (1-2-3-6-7-9)4	4
"		●Cap goes to top of tube.				
EL503*		*Must use magnoval adapter.				
"		18	6.3	3	(1-8) (3-7) 9	(2-6) 4
EL504#		*Must use magnoval adapter.				
"		14	6.3	3	(1-2) (6-7) 10	(3-8) 4
"		●Cap goes to top of tube.				
EL580		*Must use magnoval adapter.				
"		22	6.3	2	1-2-3	4-7
"		22	6.3	2	6-8-9	4-7
EM87		15	6.3	1	1 (2-6-8)	3-4
EN32		15	6.3	1	7	3-4
EY80		32	6.3	2	3-5-6	1-8
EY500#		17	6.3	3	9	3-4
"		21	6.3	2	(2-7-8) 9	4-10
"		●Cap goes to top of tube.				
EZ35		*Must use magnoval adapter.				
"		32	6.3	3		2-8
"		32	6.3	3		2-8
GY501*		100	3.3	1	10	(1-5-9)
"		Good above 35.				
"		*Must use magnoval adapter.				
GZ32		25	5.0	3	6	2
"		25	5.0	3	4	2
GZ34		20	5.0	4	4	8
"		20	5.0	4	6	8
HCH81		28	12.6	2	8-9	3-5
"		26	12.6	2	2-6-7	3-5
HL94		15	25.0	3	(2-5) 6-7	1-3
LC900		22	2.5	2	1-5	(2-7) 3
LCF80		22	6.3	2	2-3-6	4-7
"		24	6.3	2	1-9	4-8
LCF200#		24	5.0	2	3-4-7	2-6
"		#Must use decal adapter.				
"		25	5.0	2	9-10	1-6
LCF201#		#Must use decal adapter.				
"		22	5.0	2	3-4-7-8	2-6
"		#Must use decal adapter.				
"		26	5.0	2	9-10	1-6
"		#Must use decal adapter.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
E182CC		25	6.3	2	1-2	3-8
"		25	6.3	2	7-9	6-8
E188CC		25	6.3	2	1-2	3-4
"		25	6.3	2	6-7	4-8
E235L		24	6.3	2	(1-4) 3-5	2-8
E810F		24	6.3	2	2 (6-9) 7-8	(1-3) 4
EAF801		26	6.3	2	1-2-6	3-4
"		56	6.3	2	8	3-4
EC86		22	6.3	2	(1-9) (2-6-8)	4 (3-7)
EC88		25	6.3	2	(1-3-6-7-9) 8	2-4
EC900		22	6.3	2	1-5	(2-7) 3
ECC35		25	6.3	2	4-6-8	3-5-7
ECC86		16	6.3	1	1-2	3-4
"		15	6.3	1	6-7	4-8
ECC89		25	6.3	2	2-3	1-4
"		25	6.3	2	6-9	4 (7-8)
ECC808		30	6.3	2	1-3	2-4
"		30	6.3	2	7-9	4-8
ECF200#		24	6.3	2	3-4-7	2-6
"		#Must use decal adapter.				
"		25	6.3	2	9-10	1-6
Ecf201#		#Must use decal adapter.				
"		22	6.3	2	3-4-7-8	2-6
"		#Must use decal adapter.				
"		26	6.3	2	9-10	1-6
ECF801		#Must use decal adapter.				
"		18	6.3	3	8-9	(1-3) 4
ECF802		21	6.3	2	2-6-7	(1-3) 4
"		22	6.3	2	2-3-6	4-7
ECH84		23	6.3	2	1-9	4-8
"		12	6.3	1	8-9	3-4
ECH200#		12	6.3	1	2-6-8	3-4
"		30	6.3	2	2-3-4	1-6
"		#Must use decal adapter.				
"		30	6.3	2	8-10	6-9
"		#Must use decal adapter.				
ECL85		23	6.3	2	1-2	3-4
"		15	6.3	3	6-7-9	4-8
ECL86		14	6.3	1	1-9	2-4
"		19	6.3	3	3-6-8	4-7
ECLL800		22	6.3	3	1-2	4-7
"		18	6.3	3	2-3-9	4-7
"		18	6.3	3	6-8-9	4-7
ED500#		16	6.3	1	8-10 (1-2-3-6-7-9) 4	
"		●Cap goes to top of tube.				
EF37A		*Must use magnoval adapter.				
EF95		36	6.3	2	3-4-10	7-8
EF804S		26	6.3	2	1-5-6	(2-7) 3
"		29	6.3	2	1-7-8-9	3-5

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
LCF801		18	5.0	3	8-9	(1-3)4
"		21	5.0	2	2-6-7	(1-3)4
LCF802		22	6.3	2	2-3-6	4-7
"		23	6.3	2	1-9	4-8
LCH200#		30	5.0	2	2-3-4	1-6
"		#Must use decal adapter.				
"		30	5.0	2	8-10	6-9
"		#Must use decal adapter.				
LCL84		13	7.5	1	1-2	3-4
"		13	7.5	1	6-8-9	4-7
LCL85		23	7.5	2	1-2	3-4
"		15	7.5	3	6-7-9	4-8
LF183		22	3.3	2	2-7-8	(1-3)4
LF184		22	3.3	2	2-7-8	(1-3)4
LF1200#		24	12.6	2	1-3-4	2-6
"		#Must use decal adapter.				
"		25	12.6	2	8-9-10	6-7
"		#Must use decal adapter.				
LL86		21	7.5	2	(1-2)(6-9)(7-8)	3-4
LL500*		14	12.6	3	(1-2)(6-7)10	(3-8)4
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
LL509*		20	25.0	4	(1-8)(2-7)(3-6)10	4-9
"		*Must use magnoval adapter.				
LL521*		20	19.0	2	(1-8)(3-6)10	4-9
"		*Must use magnoval adapter.				
LL802		20	7.5	4	2(6-8)7	1-4
N22LL*		20	12.6	3	(1-7)2-6-9	3-4
"		*Must use magnoval adapter.				
PC86		25	3.3	2	(1-9)(2-6-8)	(3-7)4
PC900		22	3.3	2	1-5	(2-7)3
PCC88		17	7.5	3	1-2	3-5
"		17	7.5	3	6-7	5-8
PCC89		25	6.3	2	2-3	1-4
"		25	6.3	2	6-9	4-7-8
PCF82		20	7.5	2	2-3-6	4-7
"		23	7.5	2	1-9	4-8
PCF86		21	7.5	2	2-8-9	(1-3)4
"		23	7.5	2	6-7	(1-3)4
PCF200#		24	7.5	2	3-4-7	2-6
"		#Must use decal adapter.				
"		25	7.5	2	9-10	1-6
"		#Must use decal adapter.				
PCF201#		22	7.5	2	3-4-7-8	2-6
"		#Must use decal adapter.				
"		26	7.5	2	9-10	1-6
"		#Must use decal adapter.				

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
PCF801		18	7.5	3	8-9	(1-3)4
"		21	7.5	2	2-6-7	(1-3)4
PCF802		25	7.5	2	1-9	4-8
"		24	7.5	2	2-3-6	4-7
PCF805		15	6.3	1	1-9	4(6-8)
"		13	6.3	1	2-3-7	4(6-8)
PCF200#		30	7.5	2	2-3-4	1-6
"		#Must use decal adapter.				
"		30	7.5	2	8-10	6-9
"		#Must use decal adapter.				
PCL85		27	12.6	2	6-7-9	4-8
PD500*		16	7.5	1	8-10 (1-2-3-6-7-9)4	4
"		*Must use magnoval adapter.				
PFL200#		24	12.6	2	1-3-4	2-6
"		#Must use decal adapter.				
"		25	12.6	2	8-9-10	6-7
"		#Must use decal adapter.				
PL500*		14	25.0	3	(1-2)(6-7)10	(3-8)4
"		*Must use magnoval adapter.				
PL504*		14	25.0	3	(1-2)(6-7)10	(3-8)4
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
PL521*		25	25.0	2	(1-8)(3-6)10	4-9
"		●Cap goes to top of tube.				
"		*Must use magnoval adapter.				
PY82		17	12.6	3	(2-7-9)	3-4
PY500*		18	32.0	3	(2-7-8)	4-10
"		*Must use magnoval adapter.				
UBF89		28	12.6	2	1-2-6-9	3-4
"		32	12.6	1	7	3-4
"		32	12.6	1	8	3-4
UCC85		22	25.0	2	1-2	3-4
UY85		18	32.0	3	(1-6-9)	3-4
XC95		13	2.0	1	2-5	(1-7)3
XC97		15	2.5	3	2-5	1-4-7
XC900		20	2.5	2	1-5	(2-7)3
XCC189		21	3.3	2	1-2	3-4
"		21	3.3	2	6-7	4-8
XCF80		25	3.3	2	1-9	4-8
"		25	3.3	2	2-3-6	4-7
XCF801		18	3.3	3	8-9	(1-3)4
"		21	3.3	2	2-6-7	(1-3)4
XCL85		15	7.5	3	1-2	3-4
"		22	3.3	2	6-7-9	4-8
XF183		22	3.3	2	2-7-8	(1-3)4
XF184		22	3.3	2	2-7-8	(1-3)4

TUBE	KEY AT	SHUNT	FIL.	SEL.	UP	DOWN
XL84		18	7.5	3	(1-2) (6-9) (7-8)	3-4
XL86		21	7.5	2	(1-2) (6-9) (7-8)	3-4
XL500*		14	12.6	3	(1-2) (6-7) 10	(3-8) 4
"		●Cap goes to top of tube.				
		*Must use magnoval adapter.				
XL504*		14	12.6	3	(1-2) (6-7) 10	(3-8) 4
"		●Cap goes to top of tube.				
		*Must use magnoval adapter.				
YCC189		20	5.0	3	6-7	5-8
"		25	5.0	3	1-2	3-5
YL1371		22	12.6	3	3-5	1-2-4-6



MODEL 625 TUBE TESTER
SUPPLEMENT TO #625-06 ROLL CHART (OBSOLETE OR SELDOM USED TYPES)

NUMBER	SHUNT	FIL.	SEL.	UP	DOWN	NUMBER	SHUNT	FIL.	SEL.	UP	DOWN	NUMBER	SHUNT	FIL.	SEL.	UP	DOWN
00A	30	5	2	2,3	4	6A85/6N5	95	6.3	2	2,3	1,5	7C7	12	6.3	1	2,3,6	1,4,7
01A	45	5	2	2,3	4	" Eye Cl	0	6.3	4	2,4	1,3,5	7E5/1201	26	6.3	2	1,3,5,7	2,4,6
0A4	47	0	4	5	2,7	" Eye Op	0	6.3	4	4	1,2,3,5	7E6	25	6.3	1	6	1,4,7
"	43	0	4	7	2,5	6AB6	68	6.3	3	4,5	3,7,8	"	25	6.3	1	5	1,4,7
0Y4	20	0	4	5	3,7,8	6AC6	48	6.3	3	3,5	4,7,8	"	27	6.3	2	2,3	1,4,7
(May show short on 3)						6AD6	30	6.3	2	3,5	7,8	7E7	26	6.3	1	4	1,4,7
1A3	47	1.4	1	2,6	1,3	6AD6	37	6.3	3	4,5	7,8	"	22	6.3	1	3	1,7
1A4	16	2	2	2,3,10	1	" Cl	95	6.3	2	3,4,5	2,8	"	32	6.3	3	3	1,7
1A6	50	2	2	3,4	1	" Op	0	6.3	4	5	2,8	7EY6	25	7.5	2	2,5,6	
1AB4	53	2	1	2,5,10	1,5	6AE5	30	6.3	3	3,5	2,8	7F7	15	6.3	1	3,4,5	
1AB5	13	1.4	1	2,3,6	1,5	6AE6	33	6.3	2	3,5	2,8	7F8	22	6.3	2	6,8	
1B4	15	1.4	1	2,3,6	4	"	33	6.3	2	4,5	2,8	"	22	6.3	2	1,3	
1B4-p/951	16	2	1	2,3,10	4	6AE7	26	6.3	2	3,6	2,8	7G7/1232	24	6.3	2	2,3,6	
1B5/25-S	35	2	2	2,3,10	6	"	27	6.3	2	4,5	2,8	7G8	24	6.3	2	3,5,7	
"	18	2	1	2,5	4	6B5	39	6.3	3	2,4	1,3,5	7H7	24	6.3	2	2,3,4	
"	23	2	1	4	6	"	54	6.3	3	3,4	1,2,5	7J7	30	6.3	2	1,4,7	
1B7	23	2	1	3	6	6B6	33	6.3	3	3,10	2,8	7K7	22	6.3	1	1,7	
"	15	1.4	1	5,6	2	"	22	6.3	1	4	2,8	"	22	6.3	1	1,7	
1C6	42	2	2	3,4,10	2	6B7	51	6.3	3	2,3,10	1,6	"	11	6.3	1	1,2	
1C7	41	2	2	2,5,10	2,7	"	22	6.3	1	5	2,8	7L7	26	6.3	2	3,4	
"	31	2	1	3,4,10	2,7	"	22	6.3	3	4	1,6	7Q7	46	6.3	2	1,4,7	
1C21	47	0	4	5	2,7	6B8	39	6.3	3	3,6,10	2,8	"	25	6.3	2	2,5,6	
1D5 Gt	39	2	2	3,4,10	2,7	"	32	6.3	1	4	2,8	7R7	28	6.3	2	3,4	
1D5 Gp	33	2	2	3,4,10	7	6BJ8	26	6.3	2	5	2,8	"	28	6.3	1	1,7	
1D7	18	2	1	5,6	7	"	26	6.3	2	7,8	1,5	"	22	6.3	1	1,7	
"	53	2	1	3,4,10	2	"	26	6.3	2	1	2,4	7S7	23	6.3	2	2,5,6	
1D8	53	1.4	1	8	2,7	6BL8/ECF80	17	6.3	1	6	3,4	7T7	24	7.5	2	3,4	
"	48	1.4	2	6,10	2,7	"	26	6.3	2	2,3,6	4,7	7U7	18	6.3	3	1,4,7	
1E4	37	1.4	2	3,4,5	2,7	6BM8/ECL82	27	6.3	3	1,9	4,8	7V6	24	6.3	2	2,3,6	
1E5	45	1.4	2	3,5	7	"	27	6.3	3	1,9	4,8	"	21	6.3	3	1,4,7	
1E7	20	2	1	3,4,10	7	6C7	12	6.3	1	2,10	1,6	7X7	21	6.3	3	1,4,5,7	
"	30	2	2	3,4,8	7	"	22	6.3	1	4	1,6	"	21	6.3	3	1,7	
1F4	51	2	2	5,6,8	5	"	22	6.3	1	4	1,6	"	12	6.3	1	1,2	
1F5	36	2	2	2,3,4	2	"	22	6.3	1	5	1,6	"	11	6.3	1	1,4,7	
1F6	53	2	1	3,4,5	2	6D5	33	6.3	3	3,5	2,8	"	12	6.3	1	1,4,7	
"	21	2	1	2,3,10	2	6D8	30	6.3	2	5,6	2,8	7Y4	24	6.3	3	2,3	
"	53	2	1	4	2	6E6	42	6.3	2	3,4,10	2,8	7Z4	24	6.3	3	6	
1F7-GV	20	2	1	5	6	"	32	6.3	3	2,3	1,4	"	24	6.3	4	6	
"	53	2	1	3,6,10	7	6E7	32	6.3	3	5,6	1,4	8BH8	26	7.5	2	2,3	
"	53	2	1	4	2	6G7	28	6.3	2	2,3,10	1,4,6	8CS7	15	7.5	1	7,8,9	
1G4	17	1.4	1	3,5	2	"	14	6.3	1	4	3,5,7	9A8/PCF80	25	7.5	2	4,8	
1G5	39	2	2	3,4,5	2	" Eye Cl	15	6.3	1	4	3,7	9AK8	26	7.5	2	4,7	
1G6	20	1.4	1	3,4	2	" Eye Op	36	6.3	2	2,3	2,10	9AG8/PCC85	26	7.5	2	3,4	
"	20	1.4	1	5,6	2	6H4	15	6.3	1	2,4	4	10	61	7.5	3	4,8	
1H4	41	2	2	3,5	2	6H5	15	6.3	2	4	2,8	10Y	43	7.5	3	4	
1H6	17	2	1	3,6	2	"	0	6.3	4	6	2,8	12A	26	5	2	2,3	
"	22	2	1	5	7	6H7S	0	6.3	3	4	2,8	12A5*	33	6.3	3	2,3,4	
"	22	2	1	4	7	"	34	6.3	3	2,3,4	2,5,8	12A6	33	12.6	2	2,8	
1J5	38	2	2	3,4,5	7	"	52	6.3	2	5,10	1,7	12A7	29	12.6	1	6,7	
1J6	39	2	2	3,4	7	6J8	25	6.3	2	3,4,10	1,7	"	11	12.6	1	4,7	
"	39	2	2	5,6	7	"	25	6.3	2	5,6	1,7	12B6	32	12.6	1	7,8	
1LA4	40	1.4	2	2,3,6	1	6K7	32	6.3	2	3,4,10	1,7	"	33	12.6	1	4,7	
1N6	58	1.4	2	3,4,5	2	6L5	26	6.3	2	3,5	1,7	"	33	12.6	1	7,8	
"	53	1.4	1	6	2	6M3	23	6.3	2	3,5,7	1,7	"	33	12.6	1	7,8	
(Good = 200 on Test 2)						6M8	26	6.3	2	3,4,10	1,7	"	33	12.6	1	7,8	
1R4/1294	21	1.4	1	4	1,7	"	26	6.3	2	5,6	3,4	"	33	12.6	1	7,8	
1SA6	30	1.4	2	3,4,6,8	2	6N3/EY82	19	6.3	3	8	3,4	"	33	12.6	1	7,8	
1SB6	20	1.4	1	3,4,8	2	"	19	6.3	1	9	3,4	"	33	12.6	1	7,8	



NUMBER	SHUNT	FIL.	SEL.	UP	DOWN	NUMBER	SHUNT	FIL.	SEL.	UP	DOWN	NUMBER	SHUNT	FIL.	SEL.	UP	DOWN
24A	32	2.5	2	2,3,10	4,5	2305	35	2	2	2,3	4	5763	20	6.3	3	1,3,6,8,9	4,7
25A6	25	2.5	3	3,4,5	2,8	2335	40	2	3	2,3,4	5	5814*	26	6.3	2	1,2	3,4,5
25A7	28	2.5	3	3,4,5	7,8	2345	40	2	2	2,3,10	4	"	28	6.3	2	6,7	4,5,8
"	21	2.5	3	6	1,7	257A	41	2.5	2	2,10	4	5823	31	0	4	1	3,7
25AC5	29	2.5	3	3,5	2,8	262B	43	7.5	3	2,10	3,4	5844	14	6.3	1	1,6	3,7
25B5	39	2.5	3	2,4	1,5	274A	37	5	3	2	4	"	14	6.3	1	2,5	3,7
"	50	2.5	3	3,4	1,2,5	"	37	5	3	3	4	5845	14	6.3	1	1,3,4	3,7
25B6	23	2.5	3	3,4,5	2,8	300B	21	5	3	2,3	4	"	48	2.5	1	1,3,4	3,7
25B8	26	2.5	2	3,4,10	1,2	310B	28	7.5	2	2,3,4	1,5	5879	15	6.3	1	1,7,8,9	3,4
"	26	2.5	2	5,8	2,6	313C	47	.75	4	2	1	5881	21	6.3	3	3,4,5	2,8
25C6	26	2.5	3	3,4,5	2,8	348A	14	6.3	1	3,4,5,10	2,8	5910	15	1.4	1	1,5	2,3,6
25D8	26	2.5	2	5,6	1,2	376B	38	.75	4	5	2,7	"	14	6.3	1	1,6	1,5
"	26	2.5	2	3,4,10	1,2	393A	21	2.5	4	4,10	1,2	5915/5915A	32	6.3	1	5,6,7	2,4,5,7
"	13	2.5	1	8	1,7	427	48	2.5	3	2,3	4,5	5920	24	2.5	3	2,3	1,2,4
25E5/PL36	20	2.5	3	1,4,5,10	2,3,8	482A	51	5	3	2,3	4	5931	31	5.0	3	6	2
25F5	23	2.5	3	2,3,6,7	1,3	482B	39	5	3	2,3	4	"	31	5.0	3	4	2
25N6	30	2.5	2	3,4,5	2,8	484/485	33	2.5	3	2,3	4,5	5932	18	6.3	3	3,4,5	2,8
25Y4	26	2.5	3	5	2,8	486	48	3.3	2	2,3	4,5	5933	27	6.3	3	2,3,10	1,4
26A6	36	2.5	2	1,2,5,6	3,7	501X	20	1.4	1	3,4,5	7	5963	25	6.3	2	1,2	3,4,5
26A7	20	2.5	2	3,4,5	2,6	503X	20	1.4	1	3,4,5	7	"	25	6.3	2	6,7	4,5,8
"	20	2.5	2	1,5,8	2,6	504X	20	1.4	1	3,4,5	7	5964	19	6.3	3	3,7	3,7
26C6	31	2.5	3	1,7	2,3,5,6,7	520AX	17	1.4	1	1,2,4	5	"	24	6.3	2	1,2	3,9
"	20	2.5	1	5	1,2,3,6,7	521AX	17	1.4	1	1,2,4	5	5965*	30	6.3	2	6,7	8,9
26D6	22	2.5	2	1,6	2,3,5,7	586	43	7.5	3	2,3	4	6005	13	6.3	3	1,5,6,7	2,3
"	22	2.5	1	5,6,7	1,2,3	605CX	22	6.3	2	1,2,5,7	4,6	6072*	26	6.3	1	1,2	3,4,5
27	32	2.5	2	2,3	1,2,3	606BX	23	6.3	2	1	3,4	"	13	6.3	1	6,7	4,5,8
28D7	22	2.5	2	2,3,4	4,5	608CX	31	6.3	3	1,5	4,6	6087	40	5	3	8	8
"	22	2.5	2	3,5,7	1,6	615HY	24	6.3	3	10	7	"	40	5	3	6	8
28Z5	40	12.6	3	3	1,6,7	713A	25	6.3	2	1,4	3,5	6096	22	6.3	2	1,5,6	2,3,7
"	40	12.6	3	6	1,3,7	717A	13	6.3	1	1,4	3,5	6097	13	6.3	1	7	1,3
29	36	2.5	2	2,3	4,5,6	800	55	7.5	3	9,10	4	6098	20	6.3	3	3,5,7	3,5
30	35	2.5	2	2,3	4	801	43	7.5	3	2,3	4	6135	25	6.3	2	1,5,6	3,7
30A5/HL94	25	2.5	2	2,5,6,7	1,3	802	30	6.3	3	3,4,10	5,6,7	6136	26	6.3	2	1,2,5,6	3,7
31	40	2	2	2,3	4	809	28	6.3	3	3,10	4	6137	28	6.3	3	4,6,8	2,3,5
32	42	2	2	2,3,10	4	812	30	6.3	3	3,10	4	6146	19	6.3	3	3,5,10	1,2,4,6
33	40	2	3	2,3,4	5	816	20	2.5	4	10	4	6164	21	6.3	3	4,6,8	3,5,7
34	40	2	2	2,3,10	4	837	26	12.6	3	3,4,10	5,6,7	6201*	24	6.3	2	1,2	3,4,5,8
35/51	30	2.5	2	2,3,10	4,5	840	33	2	2	2,3,10	4,5	"	24	6.3	2	6,7	4,5,8
35A5	16	3.2	3	2,3,6	1,7	841	47	7.5	3	2,3	4	6202	26	6.3	3	1	3,7
35Z6	20	3.2	3	3	2,4	842	56	7.5	3	2,3	4	"	26	6.3	3	6	3,7
"	20	3.2	3	5	2,8	864	31	1.4	1	2,3	4	6211	10	6.3	1	1,2	3,4,5
36	32	6.3	2	2,3,10	1,4	865	83	7.5	3	2,3,10	4	6265	22	6.3	2	6,7	4,5,8
37	39	6.3	3	2,3	1,4	866(A)	26	2.5	3	10	4	6267/EL84	43	6.3	3	1,5,6,7	2,3
38	38	6.3	3	2,3,10	1,4	884/605	20	6.3	4	3,5	2,8	6368	23	6.3	2	3,4	1,2,7,9
39/44	30	6.3	2	2,3,10	1,4	885	21	2.5	4	2,3	4,5	"	23	6.3	2	6,7	1,8
40	16	5	1	2,3	1,4	950	47	2	3	2,3,4	5	6368	23	6.3	2	3,4	1,2
41	33	6.3	3	2,3,4	1,5	951	35	2	2	2,3,10	4	"	23	6.3	2	3,4	1,2
42	41	6.3	3	2,3,4	1,5	986	27	5	3	2	4	"	23	6.3	2	6,7	1,8
43	32	2.5	3	2,3,4	1,5	1003	27	5	3	3	4	6386	26	6.3	2	3,4	1,2
44	44	6.3	2	2,3,10	1,4	"	23	0	4	3	5,8	6550	26	6.3	2	6,7	1,8
45	33	2.5	3	2,3	1,5	"	33	0	4	5	3,8	6660/68A6	20	6.3	3	3,4,5	2,8
46	37	2.5	3	2,3,4	1,5	1201	26	6.3	2	1,3,5,7	2,4,6	6661/68H6	23	6.3	2	1,2,5,6	3,7
47	44	2.5	3	2,3,4	1,5	1203/A	33	6.3	2	4	1,7	6662/68J6	22	6.3	2	1,5,6,7	2,3
48	44	2.5	3	2,3,4	1,5	1204	26	6.3	2	1,3,5	4,5,6,8	6663/68L5	13	6.3	1	1,5,6,7	2,3
49	26	3.2	3	2,3,4	1,5	1221	13	6.3	1	3,4,10	5,7,8	"	13	6.3	1	7	1,3,5
50	45	7.5	3	2,3	1,4	1223	13	6.3	1	2,3,10	4	6669/6AQ5	22	6.3	3	1,5,6,7	2,3
50DC4	45	7.5	3	2,3	1,4	1229	14	2	1	2,3,10	4	6677/6CL6	17	6.3	3	2,3,6,7,8,9	1,4
51	20	5.0	2	2,3,10	3,7	1231	23	6.3	2	2,3,6	4,7,8	6678/6U8	22	6.3	2	4,7	4,8
52	31	6.3	3	2,3,4	1,5	1232	24	6.3	2	2,3,6	1,4,7	"	22	6.3	2	4,7	4,8
53	33	2.5	3	2,3	4,7	1266	100	.75	4	5	2,3,7	6679/12AT7	24	6.3	2	2,3,6	4,7
"	33	2.5	3	5,6	4,7	"	31	.75	4	5	2,7	"	24	6.3	2	1,2	3,4,5
55	32	2.5	2	2,10	4,7	1267	27	12.6	3	2,3,6	1,4,7	6680/12AU7	25	6.3	2	1,2	3,4,5
"	22	2.5	1	3	5,6	1273	30	5	3	2	3,4	"	25	6.3	2	6,7	4,5,8
"	22	2.5	1	4	5,6	1275	30	5	3	3	4	"	25	6.3	2	6,7	4,5,8
56	30	2.5	2	2,3	4,5	"	30	5	3	3	4	6681/12AX7	11	6.3	1	1,2	3,4,5
57	30	2.5	2	2,3,10	4,5,6	1280	27	12.6	3	2,3,6	1,4,7	"	11	6.3	1	1,2	3,4,5

(Good = 100 No open test on levers 3,7)



Part No.	Part Name	Pin	Color	Value	Notes
58	58AS	33	6.3	3	4,5,6
59	64	37	2.5	3	2,3,10
60	65	36	6.3	3	2,3,10
61	66	30	2.5	3	2,3,10
62	67	13	6.3	1	6,7
63	68	13	6.3	1	2,3,4,5
64	70A7	13	6.3	1	2,3,10
65	"	28	6.3	2	4,5
66	"	29	6.3	3	4,5
67	"	26	6.3	3	2,3,10
68	"	25	6.3	3	4,5
69	"	24	70	3	6,7,8
70	"	20	70	3	6,7,8
71	"	20	70	3	6,7,8
72	71A	20	70	3	6,7,8
73	75	20	70	3	6,7,8
74	"	20	70	3	6,7,8
75	"	20	70	3	6,7,8
76	"	20	70	3	6,7,8
77	"	20	70	3	6,7,8
78	"	20	70	3	6,7,8
79	"	20	70	3	6,7,8
80	"	20	70	3	6,7,8
81	"	20	70	3	6,7,8
82	82/82V	25	2.5	3	2
83	83/83V	25	2.5	3	2
84	84/84Z	26	5	3	2
85	"	26	5	3	2
86	"	26	5	3	2
87	"	26	5	3	2
88	86M	27	6.3	3	2
89	87S	27	6.3	3	2
90	"	27	6.3	3	2
91	"	27	6.3	3	2
92	"	27	6.3	3	2
93	"	27	6.3	3	2
94	"	27	6.3	3	2
95	"	27	6.3	3	2
96	"	27	6.3	3	2
97	"	27	6.3	3	2
98	"	27	6.3	3	2
99	"	27	6.3	3	2
100	113HY/123HY	25	1.4	1	2,3
101	114HY	60	1.4	3	9,10
102	115HY/145HY	25	1.4	1	2,3,4
103	117P7	22	110	3	3,4,5
104	"	15	110	3	none
105	"	15	110	3	7,8
106	117Z4	17	110	3	2,8
107	128A/2523N1	21	2.5	4	2,3
108	182B	39	5	3	4,5
109	183	43	5	3	2,3
110	201B	45	5	2	2,3
111	201C	45	5	2	2,3
112	210T	58	7.5	3	2,3

ROLL CHART NOTES

*Center-tapped filament - Be sure to set FILAMENT voltage selector at indicated value.
 **Filament tapped for panel bulb - For these tubes only, turn FILAMENT voltage selector down to 6.3 volts while moving the DOWN underlined levers for continuity test.

Note: Only UP levers in light type may be moved for open element tests. Underlined levers must not be moved while the SHORT-MERIT push button is pressed down. Levers in center should not be moved for short tests.



Model	Year	Color	Price	Features	Notes
1D5 Gp	33	2	2	3,4,10	
1D7	18	2	2	5,6	
1D8	53	2	1	3,4,10	
"	48	1.4	2	8	
"	37	1.4	2	6,10	
1E4	45	1.4	2	3,4,5	
1E5	20	2	1	3,5	
1E7	30	2	2	3,4,10	
"	30	2	2	5,6,8	
1F4	51	2	3	3,4,5	
1F5	36	2	2	2,3,4	
1F6	21	2	1	2,3,10	
"	53	2	1	4	
"	53	2	1	5	
1F7-GV	53	2	1	3,6,10	
"	53	2	1	5	
1G4	17	1.4	1	3,5	
1G5	39	2	2	3,4,5	
1G6	20	1.4	1	3,4	
"	20	1.4	1	5,6	
1H4	41	2	2	3,5	
1H6	17	2	1	3,6	
"	22	2	1	5	
"	22	2	1	4	
1J5	38	2	2	3,4,5	
1J6	39	2	2	3,4	
"	39	2	2	5,6	
1LA4	40	1.4	2	2,3,6	
1N6	38	1.4	2	3,4,5	
"	53	1.4	1	6	
1R4/1294	21	1.4	1	4	
1SA6	30	1.4	2	3,4,6,8	
1SB6	20	1.4	1	3,4,8	
"	51	1.4	1	5	
1T5	40	1.4	2	3,4,5	
1V/KR-1	25	6.3	3	2,3	
2A3	29	2.5	3	5	
2A4	26	2.5	3	3	
"	26	2.5	3	3	
2A5/KR-25	37	2.5	3	2,3,4	
2A6	27	2.5	3	2,10	
"	22	2.5	1	4	
"	22	2.5	1	3	
2A7	32	2.5	2	5	
2B4	64	2.5	2	2,3,4,10	
2B6	25	2.5	3	2,3	
"	95	2.5	2	4,5	
"	52	2.5	3	6,7	
2B7	51	2.5	3	3,4	
"	22	2.5	1	2,3,10	
"	22	2.5	1	5	
2C21/1642	29	6.3	2	3,10	
2C22/7193	23	6.3	3	4,5	
2C26	36	6.3	3	9,10	
2C52	26	12.6	2	10	
"	26	12.6	2	4,5	
2E5	44	2.5	2	1,2	
" Eye Cl	0	2.5	4	2,3	
" Eye Op	0	2.5	4	2,4	
2E22	26	6.3	3	3,5,6	
2E24*	23	2.5	3	2,3,5,6	
2E25	29	6.3	3	3,5,10	
2E26	22	6.3	3	4,5,8,10	
2E30*	27	2.5	3	3,5,10	
2G5	44	2.5	2	1,2,5,6	
" Eye Cl	0	2.5	4	2,3	
" Eye Op	0	2.5	4	2,4	
2H7	17	2	1	3,5,6	
2H8	17	2	1	3,5,6	
2H9	17	2	1	3,5,6	
2H10	17	2	1	3,5,6	
2H11	17	2	1	3,5,6	
2H12	17	2	1	3,5,6	
2H13	17	2	1	3,5,6	
2H14	17	2	1	3,5,6	
2H15	17	2	1	3,5,6	
2H16	17	2	1	3,5,6	
2H17	17	2	1	3,5,6	
2H18	17	2	1	3,5,6	
2H19	17	2	1	3,5,6	
2H20	17	2	1	3,5,6	
2H21	17	2	1	3,5,6	
2H22	17	2	1	3,5,6	
2H23	17	2	1	3,5,6	
2H24	17	2	1	3,5,6	
2H25	17	2	1	3,5,6	
2H26	17	2	1	3,5,6	
2H27	17	2	1	3,5,6	
2H28	17	2	1	3,5,6	
2H29	17	2	1	3,5,6	
2H30	17	2	1	3,5,6	
2H31	17	2	1	3,5,6	
2H32	17	2	1	3,5,6	
2H33	17	2	1	3,5,6	
2H34	17	2	1	3,5,6	
2H35	17	2	1	3,5,6	
2H36	17	2	1	3,5,6	
2H37	17	2	1	3,5,6	
2H38	17	2	1	3,5,6	
2H39	17	2	1	3,5,6	
2H40	17	2	1	3,5,6	
2H41	17	2	1	3,5,6	
2H42	17	2	1	3,5,6	
2H43	17	2	1	3,5,6	
2H44	17	2	1	3,5,6	
2H45	17	2	1	3,5,6	
2H46	17	2	1	3,5,6	
2H47	17	2	1	3,5,6	
2H48	17	2	1	3,5,6	
2H49	17	2	1	3,5,6	
2H50	17	2	1	3,5,6	
2H51	17	2	1	3,5,6	
2H52	17	2	1	3,5,6	
2H53	17	2	1	3,5,6	
2H54	17	2	1	3,5,6	
2H55	17	2	1	3,5,6	
2H56	17	2	1	3,5,6	
2H57	17	2	1	3,5,6	
2H58	17	2	1	3,5,6	
2H59	17	2	1	3,5,6	
2H60	17	2	1	3,5,6	
2H61	17	2	1	3,5,6	
2H62	17	2	1	3,5,6	
2H63	17	2	1	3,5,6	
2H64	17	2	1	3,5,6	
2H65	17	2	1	3,5,6	
2H66	17	2	1	3,5,6	
2H67	17	2	1	3,5,6	
2H68	17	2	1	3,5,6	
2H69	17	2	1	3,5,6	
2H70	17	2	1	3,5,6	
2H71	17	2	1	3,5,6	
2H72	17	2	1	3,5,6	
2H73	17	2	1	3,5,6	
2H74	17	2	1	3,5,6	
2H75	17	2	1	3,5,6	
2H76	17	2	1	3,5,6	
2H77	17	2	1	3,5,6	
2H78	17	2	1	3,5,6	
2H79	17	2	1	3,5,6	
2H80	17	2	1	3,5,6	
2H81	17	2	1	3,5,6	
2H82	17	2	1	3,5,6	
2H83	17	2	1	3,5,6	
2H84	17	2	1	3,5,6	
2H85	17	2	1	3,5,6	
2H86	17	2	1	3,5,6	
2H87	17	2	1	3,5,6	
2H88	17	2	1	3,5,6	
2H89	17	2	1	3,5,6	
2H90	17	2	1	3,5,6	
2H91	17	2	1	3,5,6	
2H92	17	2	1	3,5,6	
2H93	17	2	1	3,5,6	
2H94	17	2	1	3,5,6	
2H95	17	2	1	3,5,6	
2H96	17	2	1	3,5,6	
2H97	17	2	1	3,5,6	
2H98	17	2	1	3,5,6	
2H99	17	2	1	3,5,6	
2H100	17	2	1	3,5,6	

(Good = 200 on Test 2)

(No short test)



Part No.	Part Name	QTY	Notes	Part No.	Part Name	QTY	Notes
31	802	30	3,4,10	6136		26	1,2,5,6
32	809	28	3,10	6137		28	6,3,2
33	812	30	3,10	6146		19	4,6,8
34	816	20	2,5,4	6164		21	3,5,10
35/51	837	26	12,6,3	6201*		24	1,2,4,6
35A5	840	33	2,2	6202		24	3,4,5
35Z6	841	47	2,3,10	"		26	1,2
"	842	56	2,3	"		26	4,5,8
36	864	31	7,5,3	6211		10	3,7
37	865	83	1,4,1	"		10	3,4,5
38	866(A)	26	2,5,3	6265		22	3,4,5,8
39/44	884/6Q5	20	3,5	6267/ELB4		43	1,5,6,7
40	885	21	2,3	6368		23	1,2,7,9
41	950	47	2,3,4	"		23	3,4
42	951	35	2,3,10	6368		23	6,7
43	986	27	2,3,10	"		23	1,2
44	"	27	5,3	"		23	3,4
45	1003	27	3	6386		26	6,7
46	"	33	0,4	"		26	1,2
47	1201	26	5,8	6550		20	3,4
48	1203/A	33	3,8	6660/6BA6		23	6,7
49	1204	26	1,3,5,7	6661/6BH6		22	3,4,5
50	1223	13	4	6662/6BJ6		22	1,2,5,6
51	1229	13	2,3,10	6663/6AL5		13	1,5,6,7
52	1231	14	3,4,10	"		7	2,3
53	1232	24	2,3,6	6669/6AQ5		22	2
54	1236	24	2,3,6	6677/6CL6		17	1,5,6,7
55	1266	100	2,3,7	6678/6U8		22	1,7
"	1267	31	75,4	6679/12AT7		24	4,8
"	1273	27	2,7	"		24	4,7
"	1275	30	2,3,6	6680/12AU7		25	1,2
"	"	30	2	"		25	6,7
56	"	30	3,4	6681/12AX7		25	4,5,8
57	"	30	2,4	"		25	3,4,5
57AS	1280	27	2,3,6	6829/12AV7*		24	6,7
58	1284	26	2,3,6	7193		23	3,9
58AS	1293	32	1,4,2	7700		11	9,10
59	1299*	25	2,3,6	9001		15	2,3,10
64	1603	13	1,8	9002		27	1,4,5
65	1608	25	1,4,5	9003		27	1,5,6
66	1609	32	2,3,4	9006		14	2,4,7
67	1610	29	2,3,4	AF		25	1,5,6
68	1612	26	4,10	AG		25	2,4,7
70A7	1614	25	2,8	"		25	1,5
"	1616	58	3,4,5	"		25	2,4,7
"	1619	30	10	"		25	4
"	1620	13	3,4,5	AG		27	4
"	1621	43	2,8	EF39		30	4
71A	1622	28	3,4,5	EF85/6BY7		18	3,4,6,10
72	1624	27	2,8	"		18	2,7,8
75	1625	26	3,4,5	EF804		60	7,8
"	1626	33	2,3,10	EM35		28	1,2,3,5,6
"	1629	36	3,5	" Eye Cl.		0	2,8
76	" Eye Cl	0	2,8	" Eye Op.		0	3,5,6
77	" Eye Op	0	2,5,8	EM80		30	2,4
78	1631	28	2,3,5,8	" Eye Cl.		0	1,3,6,7,8,9
79	1632	22	2,8	" Eye Op.		0	1,2,4
81	1633	28	3,4,5	FM1000		11	3,5,8,9,2
82/82V	1634	11	1,2	G4		20	1,3,7
"	1635	26	2,3	GA		25	4,6
"	"	26	6,3,2	GZ30		33	5
83/83V	1642	29	3,10	"		25	2,3,4
"	1644	29	4,5	KR98		27	2
84/6Z4	1654	23	1,4,1	"		27	2
"	1851	20	3,4,10	KT66		20	1,4
"	1852	16	4,6,8	PABC80/9AK8		22	3,4,5
"	1853	17	4,6,8	"		15	7,8
86M	2050/2051	17	3,5,6	"		15	7,5,1
87S	5516*	26	2,5,3	"		42	7,7
88	5610	22	1,5,6	"		15	7,5,1
"	5618	22	2,4	"		15	7,5,1
"	5651	98	2,3,4,6	PZ		44	2,3,4
88M	"	0	1,5	R30		37	2,3,4
88S	5654	22	1,5,6	"		38	5,6

(Do not move levers 1 or 3.)

(Good = 100 No open test on levers 3,7)

(Good Tube = 300)